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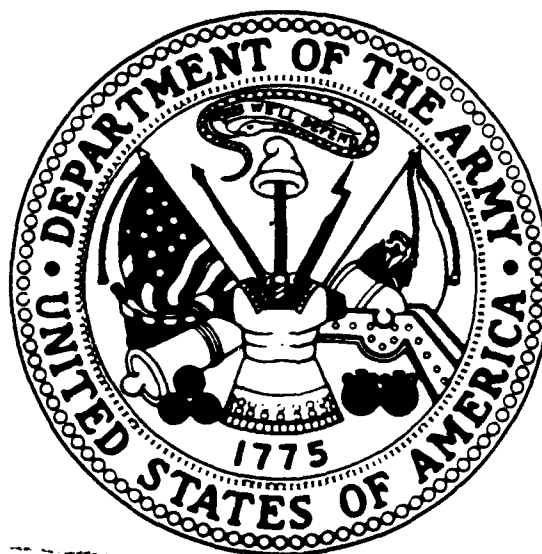
# DEPARTMENT OF THE ARMY

JUSTIFICATION OF ESTIMATES FOR  
FY 1990/FY 1991 BIENNIAL BUDGET

PROCUREMENT APPROPRIATIONS-CONSTRUCTION PROGRAM  
SUBMITTED TO CONGRESS

JANUARY 1989

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FEB 23 1989  
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Keynotes, Tables data, Statistical data, Congress,  
cost estimates, Army budgets. (KF)



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DEPARTMENT OF THE ARMY  
FISCAL YEAR 1990  
MILITARY CONSTRUCTION (PES)  
(DOLLARS ARE IN THOUSANDS)  
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMPAND) PROJECT TITLE	AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PERCENT DESIGN	PAGE
Missouri		Lake City Army Ammunition Plant (APC)				28
	26225	Replace Storage Building	590	590	NA	28
	27410	Alternate Electric Power for Waste	240	240	NA	31
	27747	Fire Detection and Deluge System	1,500	1,500	NA	34
		SUBTOTAL Lake City Army Ammunition Plant	\$ 2,330	2,330		
		* TOTAL PES FOR Missouri	\$ 2,330	2,330		
Tennessee		Holston Army Ammunition Plant (APC)				37
	21521	Electrical Safety Connections	1,850	1,850	NA	37
	27372	Construct Firebreaks	590	590	NA	40
	27375	Gas Pipe Line	160	160	NA	42
		SUBTOTAL Holston Army Ammunition Plant	\$ 2,800	2,800		
		Milan Army Ammunition Plant (APC)				44
	28875	Earth Covered Igloo - Line B	390	390	NA	44
	28896	Earth Covered Igloo - Line A	390	390	NA	46
		SUBTOTAL Milan Army Ammunition Plant	\$ 780	780		
		* TOTAL PES FOR Tennessee	\$ 3,580	3,580		
Texas		Longhorn Army Ammunition Plant (APC)				48
	28719	Fire Alarm Reporting System	900	900	NA	48
	28724	Security Fencing and Signs	230	230	NA	51
		SUBTOTAL Longhorn Army Ammunition Plant	\$ 1,130	1,130		
		* TOTAL PES FOR Texas	\$ 1,130	1,130		
Virginia		Radford Army Ammunition Plant (APC)				53
	25364	Replace Five Barricades	1,350	1,350	NA	53
	29231	Replace Hazardous Waste Surface	2,300	2,300	NA	55
	29232	Construct Sludge Drying Bed	280	280	NA	58
		SUBTOTAL Radford Army Ammunition Plant	\$ 3,930	3,930		
		* TOTAL PES FOR Virginia	\$ 3,930	3,930		
**TOTAL INSIDE THE UNITED STATES FOR PES			\$ 27,770	27,770		

DEPARTMENT OF THE ARMY  
MILITARY CONSTRUCTION (PSS) FY 1990

INSTALLATION LIST

<u>INSTALLATION</u>	<u>ACOM</u>	<u>PAGE</u>
<u>H</u>		
Houston Army Ammunition Plant	AMC	37
<u>I</u>		
Indiana Army Ammunition Plant	AMC	10
Iowa Army Ammunition Plant	AMC	7
<u>L</u>		
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Longhorn Army Ammunition Plant	AMC	48
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<u>S</u>		
Sunflower Army Ammunition Plant	AMC	15

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1. COMPONENT		FY 1990 MILITARY CONSTRUCTION PROJECT DATA		2. DATE	
ARMY-PBS				JAN 89	
3. INSTALLATION AND LOCATION			4. PROJECT TITLE		
Redstone Arsenal, Alabama			Pilot Production Complex		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST		9.000
73011A	100	13567	AUEA		5,100
			APPROV		5,100
9. COST ESTIMATES					
ITEM	U/M	QUANTITY	UNIT COST	COST	
<u>Primary Facilities</u>					
Main Laboratory Building	SF	22,700	150.00	4,823	
Casting and Finishing Annex	SF	4,000	236.00	(944)	
Aging Storage Annex	SF	5,200	55.00	(286)	
Ancilliary Storage Facility	SF	1,500	125.00	(138)	
<u>Supporting Facilities</u>					
Electric Service	LS	-	-	429	
Water, Sewer & Gas	LS	-	-	(52)	
Steam, Chilled Water & Heat Distribution	LS	-	-	(38)	
Paving, Walks, Curbs & Gutters	LS	-	-	(54)	
Site Improvement	LS	-	-	(37)	
				(238)	
Subtotal				5,252	
Contingency (10.00%)				525	
Total Contract Cost				5,777	
Supervision, Inspection & Overhead (5.50%)				319	
Total Request				6,095	
Total Request (Rounded)				6,100	
Installed Equipment - Other Appropriations				101	
10. Description of Proposed Construction					
Construct a 1.1 Pilot Production complex that consists of a Main Building of approximately 22700 SF, a Aging Storage Annex of approximately 5200 SF, a Casting and Finishing Annex of 4000 SF and ancilliary storage space of approximately 1500 SF. The Main Building is approxiamtely 50 % pure laboratory space and 50 % laboratory support space. The laboratory space will require concrete blast walls surrounding the bays. A compressed air system and specialized temperature humidity controls system will be required throughout the facility. A 15 ton overhead crane will be required in the Casting and Finishing Annex. Supporting facilities include fire protection, storm drainage, and parking for each building. The heat for these facilities will be provided by an existing steam plant. Air conditioning will be provided by self contained systems. Approximately 100 tons of air conditioning will be required to adequately cool the new facilities. This complex will replace existing deteriorating World War II facilities. The existing operations in these World War II facilities are in violation of AMC-R 385-100. Relocating these functions in the new complex will relieve these operations of any AMC-R 385-100 safety code violations.					
11. REQUIREMENT: 33,400 SF ADEQUATE: None SUBSTANDARD: 31,765 SF					

1. COMPONENT		2. DATE	
AFMFP-PBS		FY 1990 MILITARY CONSTRUCTION PROJECT DATA	
3. INSTALLATION AND LOCATION			
Redstone Arsenal, Alabama			
4. PROJECT TITLE		5. PROJECT NUMBER	
Pilot Production Complex		13557	
<p><u>11. REQUIREMENTS (Continued)</u></p> <p><u>PROJECT:</u> Replacement facilities are needed for the Propellant Aging Storage function, Propellant Analysis and Characterization Lab, and Pilot Production Manufacturing Area.</p> <p><u>REQUIREMENT:</u> This complex is needed in order to provide new facilities for the Propellant Aging Storage function and a portion of the 1.1 Pilot Production/Manufacturing operation Materials Lab functions that are currently operating in World War II facilities. It is not economically feasible to continue to spend Above Normal Maintenance money on these facilities especially when the functions being performed in these buildings are operating under "grandfather" clauses subsequent to the latest AMC-R 385-100 revision. The complex will also provide new facilities for the Propellant Analysis and Characterization Lab which is operating in better facilities (built in the mid 1950's) but are also operating under "grandfather" safety clauses. These "grandfather" clauses make it impossible for the operations to expand in their existing locations which do not meet safety requirements per AMC-R 385-100. The new complex will provide modern facilities which will be more economical to maintain, provide better environmental control conditions, and allow the PBS contractor to comply with the revised safety regulations. Also, this will allow for the abandonment and subsequent demolition of the older facilities that are not economical to maintain.</p> <p><u>CURRENT SITUATION:</u> Current operations are in facilities that were built between 1942 and 1956. Most of these facilities are not economically feasible to repair. The older buildings were designed as artillery shell loading facilities while newer buildings were only designed for 1.3 hazard type propellants. The new 1.1 hazard type propellant has more demanding building safety requirements, greater inhabited building distances and requires physical separation from 1.3 hazard type propellants (which in turn requires more floorspace). As a result of the recent revisions to AMC-R 385-100, which requires more stringent enforcement of 1.1 requirements, the majority of the operations in their present location are not in compliance and are operating under "grandfather" clauses. These operations will be in compliance with AMC-R 385-100 when relocated to the new complex. In addition, many of the required temperature and humidity control requirements are not being met in the older facilities.</p> <p><u>IMPACT IF NOT PROVIDED:</u> This new complex will house support operations related to 1.1 and 1.3 propellant for Hellfire, Tow, Maverick, MK-70, MK-36, Patriot, Slat, and VSTT missile systems. All of these programs will be impacted due to the limited and inadequate support facilities. As support facilities, these laboratories and test facilities have an indirect but important impact on the efficient and economical manufacture of the above mentioned programs. In addition, the PBS contractor and adjacent government facilities will continue to be exposed to quantity distances that have been waived as a result of the revised AMC-R 385-100. Expansion of existing</p>			

1. COMPONENT		2. DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA		JAN 89	
ARMY-988			
3. INSTALLATION AND LOCATION			
Redstone Arsenal, Alabama			
4. PROJECT TITLE		5. PROJECT NUMBER	
Pilot Production Complex		28567	
11. REQUIREMENTS (Continued)			
IMPACT IF NOT PROVIDED: (Continued)			
facilities will be impossible without additional waivers. Also, environmental temperature and humidity control will continue to be a problem because of the antiquated systems in the existing facilities. The lack of proper humidity control hinders the quality of the manufacturing/testing process.			
ADDITIONAL: This project has been coordinated with the installation physical security plan and required security improvements are included.			
/s/ Frank Chrisman Chief Physical Security Branch (205) 876-9998			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date ..... _____			
(b) Percent Complete As Of 01 January 89 (BDGT YR) ..... _____			
(c) Percent Complete As Of 01 October 89 (PROG YR) ..... _____			
(d) Design Complete Date ..... _____			
(2) Basis:			
(a) Standard or Definitive Design - Yes _____ No _____			
(b) Where Design Was Most Recently Used ..... _____			
(3) Total Cost (c) = (a)+(b) or (d)+(e): ..... (\$000)			
(a) Production of Plans and Specifications ..... _____			
(b) All Other Design Costs ..... _____			
(c) Total Cost ..... _____			
(d) Contract ..... _____			
(e) In-house ..... _____			
(4) Construction Start ..... _____			
month & year			
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)
None			

1. COMPONENT		FY 1990 MILITARY CONSTRUCTION PROJECT DATA		2. DATE																																																																							
ARMY-785				JAN 89																																																																							
3. INSTALLATION AND LOCATION			4. PROJECT TITLE																																																																								
Indiana Army Ammunition Plant, Indiana			Lightning Protection																																																																								
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST	9. COST ESTIMATES																																																																							
	420	22920	1,200																																																																								
			1,200																																																																								
<table border="1"> <thead> <tr> <th>ITEM</th> <th>QTY</th> <th>QUANTITY</th> <th>UNIT COST</th> <th>TOTAL COST</th> </tr> </thead> <tbody> <tr> <td colspan="5"><u>Primary Facilities</u></td> </tr> <tr> <td colspan="5"> </td> </tr> <tr> <td colspan="5"><u>Supporting Facilities</u></td> </tr> <tr> <td>Lightning Protection</td> <td>LS</td> <td>-</td> <td>-</td> <td>1,079</td> </tr> <tr> <td colspan="5"> </td> </tr> <tr> <td colspan="5">Subtotal</td> </tr> <tr> <td colspan="4"></td> <td>1,079</td> </tr> <tr> <td colspan="4">Contingency (5.00%)</td> <td>54</td> </tr> <tr> <td colspan="4">Total Contract Cost</td> <td>1,133</td> </tr> <tr> <td colspan="4">Supervision, Inspection &amp; Overhead (5.50%)</td> <td>52</td> </tr> <tr> <td colspan="4">Total Request</td> <td>1,195</td> </tr> <tr> <td colspan="4">Total Request (Rounded)</td> <td>1,200</td> </tr> <tr> <td colspan="4">Installed Equipment - Other Appropriations</td> <td>48</td> </tr> </tbody> </table>						ITEM	QTY	QUANTITY	UNIT COST	TOTAL COST	<u>Primary Facilities</u>										<u>Supporting Facilities</u>					Lightning Protection	LS	-	-	1,079						Subtotal									1,079	Contingency (5.00%)				54	Total Contract Cost				1,133	Supervision, Inspection & Overhead (5.50%)				52	Total Request				1,195	Total Request (Rounded)				1,200	Installed Equipment - Other Appropriations				48
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Total Request (Rounded)				1,200																																																																							
Installed Equipment - Other Appropriations				48																																																																							
<p>10. Description of Proposed Construction: Install new and upgrade existing lightning protection systems for compliance with AMCR 385-100. Work to include installation of air terminals on covered galleries at load lines and the powder preparation area, air terminals on air handlers, air terminals over vehicle parking sites at explosive buildings, addition of down conductors, replacement of u-bolt connectors with UL listed connectors, and complete lightning protection systems on certain critical buildings.</p> <p>11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None</p> <p>PROJECT: To provide updated lightning protection for mobile material handling equipment in accordance with AMCR 385-100.</p> <p>REQUIREMENT: This project is required to correct lightning protection deficiencies.</p> <p>CURRENT SITUATION: Currently, lightning protection is not adequate to provide protection to mobile material handling equipment being used during loading or unloading of ammunition items/components.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, mobile material handling equipment will not have lightning protection, with consequent risk to both personnel and equipment.</p> <p>ADDITIONAL: An economic analysis is not necessary for the project. All</p>																																																																											

1. COMPONENT		DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-BBS		PAGE 13	
2. INSTALLATION AND LOCATION			
3. PROJECT TITLE			
4. PROJECT NUMBER		5. PROJECT NUMBER	
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97. PROJECT NUMBER			
98. PROJECT NUMBER			
99. PROJECT NUMBER			
100. PROJECT NUMBER			

11. REQUIREMENT Continued:  
 ADDITIONAL Continued:  
 potential alternatives were examined in the development of the project and none were found to be feasible.

12. SUPPLEMENTAL DATA:  
 A. Estimated Design Data:  
 (1) Status:  
 (a) Design Start Date Feb 88  
 (b) Percent Complete As Of 01 January 89 (BDGT YR) 100  
 (c) Percent Complete As Of 01 October 89 (PROG YR) 100  
 (d) Design Complete Date NOV 88  
 (2) Basis:  
 (a) Standard or Definitive Design - Yes No X  
 (b) Where Design Was Most Recently Used  
 (3) Total Cost (c) = (a)+(b) or (d)+(e): (\$000)  
 (a) Production of Plans and Specifications 157  
 (b) All Other Design Costs 167  
 (c) Total Cost 167  
 (d) Contract 125  
 (e) In-house 52  
 (4) Construction Start JUN 88  
 month 1 year

3. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)
MOD-AMC	PA,A 4211	90	48
		TOTAL	48

1. COMPONENT		FY 1990 MILITARY CONSTRUCTION PROJECT DATA		2. DATE	
ARMY-PBS				FEB 88	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE			
Indiana Army Ammunition Plant, Indiana		Harden Shiphouse Buildings			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST	9. PROJECT COST	
	400	17798	1,950	1,950	
9. COST ESTIMATES					
ITEM	U/M	QUANTITY	UNIT COST	TOTAL COST	
<b>Primary Facility</b>					
Shiphouse Buildings	LSI	-	-	1,774	
Subtotal					
				1,774	
Contingency (5.00%)				89	
Total Contract Cost				1,863	
Supervision, Inspection & Overhead (5.50%)				102	
Total Request				1,965	
Total Request (Rounded)				1,950	
Installed Equipment - Other Appropriations				559	
10. Description of Proposed Construction					
Empty, decontaminate, and place 1x4-inch plywood on walls and ceiling rafters, and subsequently rewarehouse 118 shiphouses					
This project to harden all 118 shiphouses at INAAP is to comply with Paragraph 8.2.a., Chapter 5, DOD 5100.76 M; and 8-1 B, AR 190-11, Security Requirement in the Storage of Category III Explosives.					
11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None					
PROJECT: This project to harden all 118 shiphouses at INAAP is to comply with Paragraph 8.2.a., Chapter 5, DOD 5100.76 M; and 8-1 B, AR 190-11, Security Requirement in the Storage of Category III Explosives.					
REQUIREMENT: To comply with the existing security requirement, INAAP is operating in subject buildings based on a temporary waiver until such time as construction to harden the shiphouses has been completed. The Security Survey Inspection - Indiana Army Ammunition Plant, dated 11 Dec 1984 supports the imperative need for this project.					
CURRENT SITUATION: Currently, INAAP is operating in subject buildings based on a temporary waiver until such time as construction to harden the shiphouses has been completed.					
IMPACT IF NOT PROVIDED: If this project is not approved, INAAP will be in continuous violation of the security requirement in Paragraph 8.2.a., Chapter					

DD FORM 1391

PREVIOUS EDITIONS MAY BE USED INTERNALLY  
UNTIL EXHAUSTED

PAGE NO. 3

SECTION 1 - FY 1990

1. COMPONENT		1. DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-SES		JAN 89	
2. INSTALLATION AND LOCATION			
Include Army Reservation Name, Indiana			
3. PROJECT TITLE		4. PROJECT NUMBER	
Warden Warehouse Buildings		17736	
11. REQUIREMENT Continued.			
IMPACT IF NOT PROVIDED: Continued.			
5, DCD 5100.76 M and 3-13, AR 130-11.			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date	May 88		
(b) Percent Complete As Of 01 January 89 (BDGT YR)	100		
(c) Percent Complete As Of 01 October 89 (PROG YR)	100		
(d) Design Complete Date	Nov 88		
(2) Basis:			
(a) Standard or Definitive Design - Yes <input type="checkbox"/> No <input type="checkbox"/>			
(b) Where Design Was Most Recently Used _____			
(3) Total Cost (c) = (a)-(b) or (d)-(e): (\$000)			
(a) Production of Plans and Specifications	_____		
(b) All Other Design Costs	_____		
(c) Total Cost	_____		
(d) Contract	_____		
(e) In-house	_____		
(4) Construction Start			
			Apr 90
month & year			
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)
MOD-AMC	PA,A 4211	90	559
		TOTAL	559



1. COMPONENT <b>FY 1990 MILITARY CONSTRUCTION PROJECT DATA</b>		2. DATE	
ARMY-PBS		DD FORM 1391C	
3. INSTALLATION AND LOCATION			
Indiana Army Ammunition Plant, Indiana			
4. PROJECT TITLE		5. PROJECT NUMBER	
Bulk Propellant Verification Facility		13381	
<p>11. REQUIREMENT: (Continued)</p> <p>CURRENT SITUATION: (Continued)</p> <p>potential hazard of lodgement of energetic material in the floor's cracks and crevices. This building has no deluge or sprinkler system and does not comply with explosive safety regulations.</p> <p>IMPACT IF NOT PROVIDED: A Request for Waiver to operate in the 'as is' condition would be required.</p> <p>ADDITIONAL: This project has been reviewed for compliance with AR 11-28, Economic Analysis/Program Evaluation Policy and is exempt from the requirement to perform an economic analysis per paragraph 1-3.d(3) of AR 11-28. This exemption applies when there is no feasible alternative.</p>			
12. SUPPLEMENTAL DATA			
A. Estimated Design Data:			
(1) Status:			
(a)	Design Start Date	May 38	
(b)	Percent Complete As Of 01 January 89 (BDGT YR)	100	
(c)	Percent Complete As Of 01 October 89 (PROG YR)	100	
(d)	Design Complete Date	Nov 88	
(2) Basis:			
(a)	Standard or Definitive Design - Yes	No	
(b)	Where Design Was Most Recently Used		
(3) Total Cost (c) = (a)-(b) or (d)-(e): \$000			
(a)	Production of Plans and Specifications		
(b)	All Other Design Costs		
(c)	Total Cost		
(d)	Contract		
(e)	In-house		
(4) Construction Start Apr 90			
month & year			
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)
Equipment	PA, A	90	393
		TOTAL	393

1. COMPONENT		FY 1990 MILITARY CONSTRUCTION PROJECT DATA		2. DATE	
ARMY-985				JAN 89	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE			
Iowa Army Ammunition Plant, Iowa		Construct Truck Docks			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST		
73011A	126	16712	9. COST ESTIMATES		
				10.000	10.000
ITEM		11. QTY	12. QUANTITY	13. UNIT	14. COST
Primary Facility					525
TRUCK DOCKS YD E		EA	4	131,300	525
Subtotal					525
Contingency (10.00%)					53
Total Contract Cost					578
Supervision, Inspection & Overhead (5.50%)					32
Total Request					610
Total Request (Rounded)					610
Installed Equipment - Other Appropriations					
10. Description of Proposed Construction THESE YARD E WAREHOUSES ARE ABOVE-GROUND MAGAZINE STRUCTURES, OF PERMANENT CONCRETE & MASONRY CONSTRUCTION, MEASURING APPROXIMATELY 50 FEET WIDE X 500 FEET LONG. THEY ARE ELEVATED ABOVE GRADE TO RAIL CAR HEIGHT, AND A SPUR TRACK AND OPEN DOCK PLATFORM RUNS THE LENGTH OF THEIR EAST SIDES. IT IS PROPOSED TO BUILD AN ACCEPTABLE TRUCK DOCK TO REPLACE THE MAKESHIFT FACILITY THAT NOW AFFORDS TO ONLY MOTOR VEHICLE ACCESS TO THESE STRUCTURES.					
11. REQUIREMENT: 1 LS ADEQUATE: None SUBSTANDARD: None					
PROJECT: CONSTRUCT 7 NEW TRUCK DOCK ADDITIONS TO 7 EXISTING ELEVATED WAREHOUSES, BLDG. NOS 10-41-10 THRU 16.					
REQUIREMENT: THIS PROJECT IS REQUIRED TO PROVIDE SAFE AND ADEQUATE FACILITIES FOR THE HANDLING OF MATERIAL FROM MOTOR TRUCKS TO THE WAREHOUSES, IN ACCORDANCE WITH THE CONSTRUCTION REQUIREMENTS OF OSHA 1910.39.					
CURRENT SITUATION: THE CURRENT DOCKING FACILITIES ARE A MAKE-SHIFT COMBINATION OF WOOD AND CONCRETE WHICH IS HUNG ONTO THE NARROW END OF THE RAIL PLATFORM AT ONE END OF EACH WAREHOUSE. THEY HAVE NO RAILINGS, ENCLOSURES, OR PERMANENT DOCKBOARDS AND ARE BECOMING STRUCTURALLY QUESTIONABLE BECAUSE OF THEIR ADVANCING AGE. IN ADDITION, THEY ARE JUST TOO SMALL TO PROPERLY HANDLE AN ELECTRIC FORKLIFT, AND THE ACCESS ROADS TO THEM ARE NARROW CRUSHED ROCK					

FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
1. COMPONENT ARMY-PBS	2. DATE JAN 89		
3. INSTALLATION AND LOCATION IOWA ARMY AMMUNITION PLANT, IOWA			
4. PROJECT TITLE Construct Truck Roads	5. PROJECT NUMBER 16710		
11. REQUIREMENT Continued CURRENT SITUATION Continued PATHS. IMPACT IF NOT PROVIDED: THE IAAP WILL CONTINUE TO OPERATE IN VIOLATION OF OSHA 1910.39 RA CODE III C4. IF THIS CONDITION PERSISTS, THE IAAP WILL CONTINUE TO BE SUSCEPTIBLE TO A SAFETY HAZARD. CONTINUING TO ALLOW THIS CONDITION IS IN DIRECT VIOLATION OF HIGHER COMMAND MANDATE TO MAINTAIN A ZERO ACCIDENT POSTURE. THIS SITUATION PROMOTES THE RISK TO HUMAN LIFE AND PROPERTY AND EQUIPMENT DAMAGE.			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date	Mar 88		
(b) Percent Complete As Of 01 January 89 (BOGT YR.)	100		
(c) Percent Complete As Of 01 October 89 (PROG YR.)	100		
(d) Design Complete Date	Dec 88		
(2) Basis:			
(a) Standard or Definitive Design - Yes <input type="checkbox"/> No <input type="checkbox"/>			
(b) Where Design Was Most Recently Used			
(3) Total Cost (c) = (a)-(b) or (d)-(e): \$5000			
(a) Production of Plans and Specifications			
(b) All Other Design Costs			
(c) Total Cost			
(d) Contract			
(e) In-house			
(4) Construction Start			
	Apr 90		
	month & year		
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)
	None		

1. COMPONENT		2. DATE	
ARMY-933		FY 1990 MILITARY CONSTRUCTION PROJECT DATA	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
Iowa Army Ammunition Plant, Iowa		Steam Lines	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST
	302	11075	431
9. COST ESTIMATES			
ITEM	QTY	QUANTITY	COST
<b>Primary Facility</b>			
INSULATE STEAM LINES	LS	-	542
Subtotal			
			542
Contingency (10.00%)			54
Total Contract Cost			596
Supervision, Inspection & Overhead (5.50%)			33
Total Request			629
Total Request (Rounded)			630
Installed Equipment - Other Appropriations			0
10. Description of Proposed Construction			
Repair/Replace damaged steam lines insulation add two additional inches of new insulation, and install new aluminum jacketing on all of the 1.7 miles of steam line that comprises the Line 3A distribution system.			
11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None			
PROJECT: This project will provide for the repair and improvement of insulation for the purpose of reducing heat loss and waste of energy.			
REQUIREMENT: Project is required to save money thru energy conservation and help achieve our long range energy conservation plan goals.			
CURRENT SITUATION: The existing insulation is 45 year old asphalt-paper wrapped material and in many instances has fallen off, exposing bare pipe.			
IMPACT IF NOT PROVIDED: High maintenance costs and energy losses associated with the deteriorated insulation will continue.			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date			Mar 88
(b) Percent Complete As Of 01 January 89 (BDGT YR)			100

1. COMPONENT		1. DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
2. INSTALLATION AND LOCATION		3. PROJECT NUMBER	
4. PROJECT TITLE		5. PROJECT NUMBER	
6. PROJECT TITLE		7. PROJECT NUMBER	
8. PROJECT TITLE		9. PROJECT NUMBER	
10. SUPPLEMENTAL DATA (Continued)			
A. Estimated Design Data: (Continued)			
(1) Status: (Continued)			
(c) Percent Complete As Of 31 October 89 (PROG YR)			100
(d) Design Complete Date			Dec 88
(2) Basis:			
(a) Standard or Definitive Design - Yes <input type="checkbox"/> No <input type="checkbox"/>			
(b) Where Design Was Most Recently Used			
(3) Total Cost (c) = (a)-(b) or (d)-(e)			\$0000
(a) Production of Plans and Specifications			_____
(b) All Other Design Costs			_____
(c) Total Cost			_____
(d) Contract			_____
(e) In-house			_____
(4) Construction Start			Apr 90
			month & year
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment	Procuring	Fiscal Year	Cost
<u>Nomenclature</u>	<u>Appropriation</u>	<u>Appropriated</u>	<u>Or Requested</u>
None	None	None	\$000

1. COMPONENT		FY 1990 MILITARY CONSTRUCTION PROJECT DATA		2. DATE	
ARMY-085				JAN 88	
3. INSTALLATION AND LOCATION			4. PROJECT TITLE		
Iowa Army Ammunition Plant, Iowa			Rehabilitate Rest Rooms		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST	9. FUNDING	
73011A	026	11074	100	100	
10. COST ESTIMATES					
ITEM	QTY	QUANTITY	UNIT	UNIT	UNIT
Primary Facility					136
Rehab Rest Rooms	EA	3	62,000		136
Subtotal					136
Contingency (10.00%)					13
Total Contract Cost					205
Supervision, Inspection & Overhead (5.50%)					11
Total Request					226
Total Request (Rounded)					220
Installed Equipment - Other Appropriations					
11. Description of Proposed Construction: Construct three each 400 sq ft rest room additions; one on each of buildings 3A-05-1, 3A-20-1, & 5A-28. Handicapped access not required for functional reasons.					
11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None					
PROJECT: Construct single-storied, wood-framed, metal sided, concrete slab floored building additions to contain separate rest room facilities for men & women.					
REQUIREMENT: To provide modern sanitation facilities for approximately 10 each male and female production operators, in accordance with current OSHA standards.					
CURRENT SITUATION: Building 3A-05-1 has two rest rooms which are inadequate for the number of people that work in the building. Building 5A-28 has only one rest room which must be used jointly by men and women. Building 3A-20-1 has no rest room at all.					
IMPACT IF NOT PROVIDED: We will continue to operate in non-compliance with OSHA regulations.					
12. SUPPLEMENTAL DATA:					
A. Estimated Design Data:					

1. COMPONENT	FY 1990 MILITARY CONSTRUCTION PROJECT DATA	2. DATE	
ARMY-PBS		FORM 12	
3. INSTALLATION AND LOCATION			
4. PROJECT TITLE			
5. PROJECT NUMBER			
Renovate East Room			
1176			
12. SUPPLEMENTAL DATA. Continued			
A. Estimated Design Data. Continued.			
(1) Status:			
(a) Design Start Date	Mar 88		
(b) Percent Complete As Of 01 January 89 (BDGT YR)	100		
(c) Percent Complete As Of 01 October 89 (PROG YR)	100		
(d) Design Complete Date	Nov 88		
(2) Basis:			
(a) Standard or Definitive Design - Yes	No		
(b) Where Design Was Most Recently Used			
(3) Total Cost (c) = (a)-(b) or (d)-(e)			
(a) Production of Plans and Specifications		\$0000	
(b) All Other Design Costs			
(c) Total Cost			
(d) Contract			
(e) In-house			
(4) Construction Start			
	Apr 90		
	month & year		
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment	Procuring	Fiscal Year	Cost
Nomenclature	Appropriation	Appropriated	
	None	Or Requested	\$000

1. COMPONENT		FY 1990 MILITARY CONSTRUCTION PROJECT DATA		2. DATE	
ARMY-PBS				PAGE 13	
3. INSTALLATION AND LOCATION			4. PROJECT TITLE		
5. PROGRAM ELEMENT			6. CATEGORY CODE		
7. PROJECT NUMBER			8. PROJECT COST		
9. COST ESTIMATES					
ITEM	Y/M	QUANTITY	UNIT COST	TOTAL COST	
<b>Primary Facility</b>					
BUILT 5A-29 TRUCK DOCK	EA	1,205,600		206	
Subtotal					
				206	
Contingency (10.00%)				21	
Total Contract Cost				227	
Supervision, Inspection & Overhead (5.50%)				12	
Total Request				239	
Total Request (Rounded)				240	
Installed Equipment - Other Appropriations				0	
10. Description of Proposed Construction Construct an approximately 600 sq ft addition to the northwest corner of building 5A-29. Structure to have a 2-bay depressed dock well, a pre-engineered steel frame and sided enclosure and contain automatic dock boards, heat and light. Accessibility for handicapped not required for functional reasons.					
11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None					
PROJECT: Construct a truck dock addition to this Line 5 assembly building for the purpose of handling incoming production components.					
REQUIREMENT: Structure is needed to promote the safe and efficient handling of component deliveries.					
CURRENT SITUATION: IJ Incoming material must be handled in the open from semi trailer spotted on the parking lot on the north side of the building.					
IMPACT IF NOT PROVIDED: The current situation must continue.					
12. SUPPLEMENTAL DATA:					
A. Estimated Design Data:					
(1) Status:					
(a) Design Start Date Mar 38					
(b) Percent Complete As Of 01 January 89 (FODT YR) 100					

1. COMPONENT	FY 1990 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY-PBS		JAN 88
3. INSTALLATION AND LOCATION		
Fort Belvoir, Kansas, Kansas		
4. PROJECT TITLE		5. PROJECT NUMBER
Construction Truck Dock		11077
12. SUPPLEMENTAL DATA (Continued)		
A. Estimated Design Data: (Continued)		
1. Status: (Continued)		
(c) Percent Complete As Of 31 October 89 (PROG YR):		100
(d) Design Complete Date		Dec 88
(2) Basis:		
(a) Standard or Definitive Design - Yes		No
(b) Where Design Was Most Recently Used		
(3) Total Cost (c) = (a)-(b) or (d)-(e):		\$000
(a) Production of Plans and Specifications		
(b) All Other Design Costs		
(c) Total Cost		
(d) Contract		
(e) In-house		
(4) Construction Start		Apr 90
		month & year
B. Equipment associated with this project which will be provided from other appropriations:		
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested
	None	Cost \$0000



1. COMPONENT <b>FY 1990 MILITARY CONSTRUCTION PROJECT DATA</b>		2. DATE <b>JAN 88</b>	
3. PROJECT TITLE <b>Enclosure for Decanter in Building</b>			
4. PROJECT NUMBER <b>08942</b>		5. PROJECT NUMBER	
6. SUPPLEMENTAL DATA			
A. Estimated Design Data.			
(1) Status:			
(a) Design Start Date	.....	Jul 88	
(b) Percent Complete As Of 01 January 89 (BDGT YR)	.....	100	
(c) Percent Complete As Of 01 October 89 (PROG YR)	.....	100	
(d) Design Complete Date	.....	Nov 88	
(2) Basis:			
(a) Standard or Definitive Design - Yes	___ No ___		
(b) Where Design Was Most Recently Used	_____		
(3) Total Cost (c) = (a)-(b) or (d)-(e)			
(a) Production of Plans and Specifications	.....	\$000	
(b) All Other Design Costs	.....	_____	
(c) Total Cost	.....	_____	
(d) Contract	.....	_____	
(e) In-house	.....	_____	
(4) Construction Start			
.....		Apr 90	
month & year			
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment	Procuring	Fiscal Year	Cost
<u>Nomenclature</u>	<u>Appropriation</u>	<u>Appropriated</u>	<u>Or Requested</u>
	None		\$000

1. COMPONENT		2. DATE	
ARMY-PBS		JAN 83	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
Louisiana Army Ammunition Plant, Louisiana Security - Replace Plant Gates			
5. PROGRAM ELEMENT	6. INTERIOR CODE	7. PROJECT NUMBER	8. PROJECT COST
	372	6012	1,500
		40000	1,100
9. COST ESTIMATES			
ITEM	QTY	QUANTITY	UNIT
			1982
			1983
<b>Primary Facilities</b>			
Sentry Station	SF	1,040	208.00
Sentry Station	SF	488	208.00
<b>Supporting Facilities</b>			
Security Fencing Arms and Ammo.	LS	-	-
<b>Subtotal</b>			
1,348			
<b>Contingency (5.00%)</b>			
67			
<b>Total Contract Cost</b>			
1,415			
<b>Supervision, Inspection &amp; Overhead (5.50%)</b>			
78			
<b>Total Request</b>			
1,493			
<b>Total Request (Rounded)</b>			
1,500			
<b>Installed Equipment - Other Appropriations</b>			
10. Description of Proposed Construction			
PROVIDE GUARD GATE FACILITY, PARKING AREA, SECURITY FENCE (RELOCATION AND NEW) AND GATES, EXTERIOR LIGHTING, AND ALL REQUIRED SUPPORTING UTILITIES (SEWAGE, WATER, NATURAL GAS, ELECTRICAL POWER, TELEPHONE). PROVIDE GUTTERS AND STORM DRAINS. SITE IMPROVEMENTS CONSISTS OF A MINOR AMOUNT OF EXCAVATION AND FILL (LESS THAN 24" BOTH WAYS) AND THE ESTABLISHMENT OF LAWN IN THE AREA DISTURBED BY CONSTRUCTION. FULL INSULATION OF BUILDING IS REQUIRED. ON COMPLETION OF CONSTRUCTION DEMOLISH 2 BUILDINGS (155 SQ FT) ACCESSIBILITY FOR THE HANDICAPPED WILL NOT BE PROVIDED BECAUSE OF SAFETY AND FUNCTIONAL REASONS. PRIMARY ENERGY SOURCE FOR HEATING SHOULD BE NATURAL GAS. PRIMARY ENERGY SOURCE FOR AIR CONDITIONING SHOULD BE FURNISHED FROM ELECTRICAL SOURCE. THIS SCOPE OF WORK IS NOT SITED IN A FLOOD PLAIN. INDUSTRIAL PREPAREDNESS MEASURES PROJECT IDENTIFICATION NUMBER IS 3LA063 Replace area perimeter fences with FE-5 type fence. Replacement of fences shall include, but is not limited, to gates, drainage ditch security grates.			

1. COMPONENT		2. DATE	
ARMY-PBS		JAN 90	
3. INSTALLATION AND LOCATION			
BONHOMME ARMY AMMUNITION PLANT, LOUISIANA			
4. PROJECT TITLE		5. PROJECT NUMBER	
Security - Replace Guard Gates		6011	
<p>11. DESCRIPTION OF PROPOSED CONSTRUCTION (Continued)</p> <p>proper electrical grounding and any dirt work or sodding. Areas requiring fence replacement and approximate linear feet required are:</p> <p>Area C 9,512 Lf.</p> <p>Area E 2,535 Lf.</p> <p>Area S 9,264 Lf.</p> <p>Area B 1,536 Lf.</p> <p>(Pipe, steel, and dunnage yards)</p> <p>Area N 9,130 Lf.</p> <p>Area L-1-12,846 Lf.</p> <p>Area L-2-12,090 Lf.</p> <p>52,913 Lf.</p>			
<p>12. REQUIREMENT: 6,833 SF ADEQUATE, 487 SF SUBSTANDARD 6,846 SF</p> <p>PROJECT: PROVIDE FACILITY TO HOUSE GUARD FUNCTION. PROVIDE ONE EACH PERIMETER GATE FOR GATE 1 AND GATE 3; PROVIDE PARKING AREA FOR INCOMING TRAFFIC; RELOCATE AND PROVIDE ADDITIONAL FE-5 SECURITY FENCE; PROVIDE FLOOD LIGHT ILLUMINATION; AND PROVIDE REST ROOM, VISITOR REGISTRATION AREA, AND TRAFFIC CONTROL AREA IN THE GUARD HOUSE. Provide and install FE-5 fence to replace existing perimeter security fence at Areas C, E, S, L-1 and L-2. Provide security fence at Area N and selected sections of Area B.</p> <p>REQUIREMENT: EXISTING GATE HOUSE #3 WAS CONSTRUCTED IN 1941 AND IS OF TEMPORARY CONSTRUCTION. THE BUILDING IS OF FRAME CONSTRUCTION, NOT INSULATED, TRANSITE SIDING, ELECTRIC HEATED, ON CONCRETE SLAB, AND CONTAINS NO REST ROOM AND WATER. PERSONNEL WHICH REQUIRE RELIEF MUST BE RELIEVED BY A PATROL. NEAREST REST ROOM IS LOCATED IN AREA S, A DISTANCE OF 2 MILES.</p> <p>EXISTING GATE HOUSE #1 WAS CONSTRUCTED IN 1967. IT IS OF FRAME CONSTRUCTION WITH BRICK VENEER LOWER HALF WALL. IT IS ELECTRICALLY HEATED, WITH WATER COOLER, AND IS NOT EQUIPPED WITH SANITARY FACILITIES.</p> <p>IN GENERAL, THE PHYSICAL SIZE AND DESIGN IS NOT ADEQUATE FOR CURRENT ACTIVITY REQUIREMENTS. The existing fences will be 49 years old except Area S which will be 45 years old in FY90. The use of production areas, when explosives are involved, classifies the area as "LIMITED". As such, an FE-5 type fence is required. Ref. DoD 5160.65M, pg. 12-6-1 and 5100.76M, pg. 5-2, Par. C.</p> <p>CURRENT SITUATION: THE CURRENT OPERATION OF GATE 1 REQUIRES THAT VISITOR PASSES BE ISSUED IN BUILDING A-102 WHICH IS LOCATED NEAR GATE 1. ALL OTHER SECURITY FUNCTIONS ARE HANDLED BY GATE 1 AS ASSIGNED.</p> <p>GATE 3 IS NOT PRESENTLY EQUIPPED TO HANDLE VISITORS. Production area perimeter fences are maintained and patched where possible, but are utilized in their present deteriorated condition.</p> <p>IMPACT IF NOT PROVIDED: IF REPLACEMENT FACILITIES ARE PROVIDED THE CAPABILITIES WILL REMAIN RESTRICTED. THE PHYSICAL SECURITY ASPECTS OF BOTH BUILDINGS ARE INCAPABLE OF MEETING GOOD PHYSICAL SECURITY PRACTICES. Failure to approve this project will result in the continued use of deteriorated and</p>			

1. COMPONENT	FY 1990 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY-PBS		JAN 89
3. INSTALLATION AND LOCATION		
Louisiana Army Ammunition Plant Louisiana		
4. PROJECT TITLE		5. PROJECT NUMBER
Security - Replace Guard Gates		6011
<p>11. REQUIREMENT (Continued)</p> <p>IMPACT IF NOT PROVIDED: (Continued)</p> <p>Inadequate facilities.</p> <p>ADDITIONAL: An exemption to requirements of an economic analysis is requested in accordance with provisions AR 11-28, Para 1-3d(3). Regulatory references are: DOD 5150.65M and 5100.76M.</p> <p>AN ECONOMIC ANALYSIS FORM 3 WILL BE SUBMITTED AT A LATER DATE. An exemption to requirements of an economic analysis is requested in accordance with provisions AR 11-28, Para. 1-3d(3). Regulatory references are: DOD 5150.65M and 5100.76M.</p>		
12. SUPPLEMENTAL DATA		
A. Estimated Design Data:		
(1) Status:		
(a) Design Start Date		Jun 89
(b) Percent Complete As Of 01 January 89 (BDGT YR)		90
(c) Percent Complete As Of 01 October 89 (PROG YR)		100
(d) Design Complete Date		Feb 89
(2) Basis:		
(a) Standard or Definitive Design - Yes <input type="checkbox"/> No <input type="checkbox"/>		
(b) Where Design Was Most Recently Used		Not Used
(3) Total Cost (c) = (a)+(b) or (d)-(e): (\$000)		
(a) Production of Plans and Specifications		_____
(b) All Other Design Costs		_____
(c) Total Cost		_____
(d) Contract		_____
(e) In-house		_____
(4) Construction Start _____ Apr 90		
month & year		
B. Equipment associated with this project which will be provided from other appropriations:		
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested
	None	Cost (\$000)

1. COMPONENT		FY 1990 MILITARY CONSTRUCTION PROJECT DATA		2. DATE	
ARMY-PBS				JAN 89	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE			
Louisiana Army Ammunition Plant, Louisiana Construct Storage Buildings					
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST	9. COST	10. COST
	400	38950	100	100	100
9. COST ESTIMATES					
ITEM	U/M	QUANTITY	UNIT COST	TOTAL COST	
<b>Primary Facility</b>					
Storage Igloos - Area T-6	SF	1,010	172.28	174	
				(174)	
See Cost Estimates (Continued)				10	
Subtotal				174	
Contingency (10.00%)				17	
Total Contract Cost				191	
Supervision, Inspection & Overhead (5.50%)				11	
Total Request				202	
Total Request (Rounded)				200	
Installed Equipment - Other Appropriations				0	
11. Description of Proposed Construction      Excavate site as necessary and construct three earth covered igloos with van dock. One igloo is to be 12 ft X 13 ft X 7 ft 6 inches high and two igloos will be 10 ft X 13 ft X 7 ft 6 inches high. All igloos will be connected by van dock 6 ft X 95 ft long X 48 inches high. Provide one dock leveler mounted in dock. Igloos are to be covered with a minimum of 24 inches of earth. Provide hard surface access driveway from existing road. An intrusion detection system must be provided on all igloos. System includes providing and installing armored fiber optic transmission cable routed most feasible route to guard headquarters. Provide and install one explosion proof light in each igloo with on/off switch and a dock floodlight on front of each igloo. IDS switches will be GFM, but will be installed by this project.					
11. REQUIREMENT: 1,010 SF ADEQUATE: None SUBSTANDARD: None					
PROJECT: Storage facilities are required in test Area T-6 to house items to be tested as well as the explosive components required for demolition testing. Currently there is no storage facilities.					
REQUIREMENT: Facilities for storing explosives must meet security construction criteria as set forth in AR 190-11 and DOD 5100.76-M, Ch. 4 & 5.					
CURRENT SITUATION: Current remote storage space does not meet the criteria					

1. COMPONENT		2. DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS		JAN 89	
3. INSTALLATION AND LOCATION			
Louisiana Army Ammunition Plant, Louisiana			
4. PROJECT TITLE		5. PROJECT NUMBER	
Construct Storage Buildings		08951	
9. Cost Estimates Continued:			
Item	U/M	Quantity	Unit Cost Cost \$000
Primary Facility (Continued)			
Total			0
11. REQUIREMENT: (Continued)			
CURRENT SITUATION: (Continued)			
and drastically slows testing operations due to the lack of on site storage and time required to retrieve remotely stored components. Items awaiting testing are stored on the production assembly line. This space is required for production holding capacity.			
IMPACT IF NOT PROVIDED: Failure to approve this project will force continued use of facilities which do not meet the criteria required by AR 190-11 and DOD 5100.76-M, Ch. 4 & 5. Items awaiting testing will continue to be held on the production lines thereby reducing the production.			
ADDITIONAL: Exemption to requirements of an economic analysis is requested in accordance with provisions of AR 11-28 Para 1-3d(3). Igloos are required by AR 190-11, Ch. 4 and DOD 5100.76-M, Ch. 4 & 5.			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date	Nov 88		
(b) Percent Complete As Of 01 January 89 (BDGT YR)	99		
(c) Percent Complete As Of 01 October 89 (PROG YR)	100		
(d) Design Complete Date	Jan 89		
(2) Basis:			
(a) Standard or Definitive Design - Yes	No		
(b) Where Design Was Most Recently Used			
(3) Total Cost (c) = (a)+(b) or (d)+(e): (\$000)			
(a) Production of Plans and Specifications			
(b) All Other Design Costs			
(c) Total Cost			
(d) Contract			
(e) In-house			
(4) Construction Start			
			Mar 90
			month & year

1. COMPONENT		SOURCE	
ARMY-935		FY 1990 MILITARY CONSTRUCTION PROJECT DATA	
2. INSTALLATION AND LOCATION			
Louisiana Army Ammunition Plant, Louisiana			
3. PROJECT TITLE		4. PROJECT NUMBER	
Construct Storage Buildings		28850	
10. SUPPLEMENTAL DATA (Continued)			
5. Equipment associated with this project which will be provided from other appropriations:			
<u>Equipment Nomenclature</u>	<u>Procuring Appropriation</u>	<u>Fiscal Year Appropriated Or Requested</u>	<u>Cost</u>
	None		\$000

1. COMPONENT		FY 1990 MILITARY CONSTRUCTION PROJECT DATA		DATE	
ARMY-998				JAN 89	
2. INSTALLATION AND LOCATION			4. PROJECT TITLE		
Louisiana Army Ammunition Plant, Louisiana Chemical Storage Buildings					
3. PROGRAM ELEMENT	5. CATEGORY CODE	7. PROJECT NUMBER	6. PROJECT COST	8. PROJECT TYPE	
73011A	442	13850	428	300	
9. COST ESTIMATES					
ITEM	SQM	QUANTITY	UNIT COST	TOTAL COST	
<b>Primary Facility</b>					
Flammable Material Storehouse	SF	2,908	147.18	428	
<b>Subtotal</b>				428	
<b>Contingency (10.00%)</b>				43	
<b>Total Contract Cost</b>				471	
<b>Supervision, Inspection &amp; Overhead (5.50%)</b>				25	
<b>Total Request</b>				497	
<b>Total Request (Rounded)</b>				500	
<b>Installed Equipment - Other Appropriations</b>					
10. Description of Proposed Construction      This project will provide for new chemical storage buildings to be built on production lines to store chemicals used in the production and production support areas. These chemicals are normally stored in 55 gallon drums, then emptied to smaller containers for transfer to the use point. These buildings require spill containment provisions in the building foundation, proper ventilation, emergency eyewash facilities, provisions for unloading trucks, and freeze protection. Work to be accomplished at each area is as follows: AREA B - Construct a 16 ft. X 22 ft. concrete block building connecting to B-1402. Concrete floor to have curb, center drain, and sump with manually operated electric pump. Provide roof and wall vents, all required utilities, Class I, Group D electrical wiring and fixtures, lighting, grounding points, and lightning protection. Provide space heaters for freeze protection, double doors and a means of unloading trucks. AREA C - Construct a 16' X 20' concrete block building with curbed concrete floor, center drain and sump with manually operated electric pump. Building to be constructed with insulated metal roof, roof and wall vents, set of double steel doors with provisions for off loading trucks, and a window in other remaining walls. Utilities include Class I, Group D wiring and fixtures, lighting, grounding points, lightning protection, and space heaters					

1. COMPONENT	FY 1990 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY-993		JAN 89
3. INSTALLATION AND LOCATION		
Louisiana Army Ammunition Plant, Louisiana		
4. PROJECT TITLE		5. PROJECT NUMBER
Chemical Storage Buildings		13360
<p>10. DESCRIPTION OF PROPOSED CONSTRUCTION: Continued</p> <p>for freeze protection. Install 14 ft. wide driveway. AREA D - Construct two each 14 ft. X 24 ft. concrete block (or equivalent) buildings with curved concrete floor, center drain and sump with manually operated electric pump. Buildings to be constructed with insulated metal roofs, roof and wall vents, a set of double steel doors with provisions for off loading trucks, and window in other remaining walls. Utilities include Class I, Group D wiring and fixtures, lighting protection and space heaters for freeze protection. Provide 14 ft. wide concrete driveway. AREA Y - Construct a 16 ft. X 22 ft. addition to Building Y-2602 of concrete block to match existing structure. Install a curved concrete block to match existing structure. Install a curved concrete floor with center drain and sump with manually operated electric pump. Roof to be bar joist supported 5 ply built-up roof over 3/4 inch insulation board. Provide roof and wall vents, and additional 10 ft X 10 ft rollup door and one additional window. Remove window in north end of existing structure and convert to doorway. Install space heater for freeze protection. Utilities to include Class I, Group D wiring and fixtures, lighting, and lightning protection. After new construction is complete, rate existing buildings C-1354, D01206, D-1243, D-1244, E-1725, and S-1609. Total square feet to be razed is 2,329. Accessibility for the handicapped not required for safety reasons.</p>		
<p>11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None</p> <p>PROJECT: Provide 2,900 sq. ft. of chemical storage space meeting the requirements of AMCR 385-100 and AR 200-1, 40CFR12.</p> <p>REQUIREMENT: Present existing facilities do not meet provisions of AMCR 385-100 or AR200-1, 40CFR12.</p> <p>CURRENT SITUATION: Substandard buildings which do not meet regulation requirements and are being operated under a safety waiver.</p> <p>IMPACT IF NOT PROVIDED: Chemical storage buildings that do not meet regulation requirements must continue to operate under safety waiver and continue.</p>		
12. SUPPLEMENTAL DATA:		
A. Estimated Design Data:		
(1) Status:		
(a) Design Start Date	May 38	
(b) Percent Complete As Of 01 January 89 (BDGT YR)	95	
(c) Percent Complete As Of 01 October 89 (PROG YR)	100	
(d) Design Complete Date	Jan 89	
(2) Basis:		
(a) Standard or Definitive Design - Yes <input type="checkbox"/> No <input type="checkbox"/>		
(b) Where Design Was Most Recently Used		
(3) Total Cost (c) = (a)+(b) or (d)+(e):		(\$000)

1. COMPONENT		2. DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS		JAN 89	
3. INSTALLATION AND LOCATION			
Louisiana Army Ammunition Plant, Louisiana			
4. PROJECT TITLE		5. PROJECT NUMBER	
Chemical Storage Buildings		18860	
12. SUPPLEMENTAL DATA (Continued)			
A. Estimated Design Data: (Continued)			
(3) Total Cost: (Continued)		\$000	
(a) Production of Plans and Specifications		_____	
(b) All Other Design Costs		_____	
(c) Total Cost		_____	
(d) Contract		_____	
(e) In-house		_____	
(4) Construction Start		Jun 90	
		month & year	
3. Equipment associated with this project which will be provided from other appropriations:			
<u>Equipment</u>	<u>Procuring</u>	<u>Fiscal Year</u>	<u>Cost</u>
<u>Nomenclature</u>	<u>Appropriation</u>	<u>Or Requested</u>	<u>\$000</u>
	None		

1. COMPONENT		2. DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-SES		JAN 89	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
5. PROGRAM ELEMENT			
6. PROJECT NUMBER			
7. PROJECT COST			
8. COST ESTIMATES			
ITEM	QTY	UNIT	PRICE
<b>Primary Facility</b>			
Storage Igloos w/Dock	SF	1,670	147.30
Subtotal			246
Contingency (10.00%)			25
Total Contract Cost			271
Supervision, Inspection & Overhead (5.50%)			15
Total Request			286
Total Request (Rounded)			290
Installed Equipment - Other Appropriations			
9. Description of Proposed Construction			
Construct five single level earth covered igloos with concrete floor 10 ft. wide x 13 ft. long x 7 ft. 6 inches high with van dock 170 ft. long x 6 ft. wide connecting all five igloos. Provide driveway for access from existing road. Igloos to be covered with a minimum of 24" of earth. An intrusion detection system must be provided on all five igloos. This will include providing and installing a minimum 6 pair transmission line routed most feasible route to Security headquarters. Transmission line to be armored fiber optic. Other components will be GFM but will be installed under this project funding. Explosion proof light is required in each igloo and a floodlight on the front of each igloo.			
11. REQUIREMENT: 1,670 SF ADEQUATE: None SUBSTANDARD: 188 SF			
PROJECT: Storage igloos sufficient for storage of Category II explosives are required to support testing activities at Test Area BG5.			
REQUIREMENT: Storage igloos are required to meet the criteria of AR190-11 and DOD 5100.76-M and AMC-R 385-100. Proper storage facilities are required to store all fuzes, blasting caps, etc as well as the items awaiting testing			
CURRENT SITUATION: Demolition items are currently housed in two small metal buildings which are inadequate and do not meet the requirements of AR190-11.			
IMPACT IF NOT PROVIDED: Failure to approve this project will deny this			

1. COMPONENT		2. DATE	
ARMY-266		FY 1990 MILITARY CONSTRUCTION PROJECT DATA	
3. INSTALLATION AND LOCATION			
LOUISIANA ARMY AMMUNITION PLANT, LOUISIANA			
4. PROJECT TITLE		5. PROJECT NUMBER	
Storage Buildings		13871	
11. REQUIREMENT (Continued)			
IMPACT IF NOT PROVIDED (Continued)			
<p>facility appropriate storage to meet requirements of Security Regulation AR190-11, Ch. 4 and DCD 5100.76-M, Ch. 4 &amp; 5. It will force inefficiencies by holding items for testing in the current production facility thereby reducing space for production use. It will require extra transportation and load/unload of items which cannot be accepted and unloaded at the test area. This causes additional exposure of personnel to explosives due to the additional handling. There is current no IDS.</p> <p><u>ADDITIONAL:</u> Exemption to requirements of an Economic Analysis is requested in accordance with AR 11-28, Para. 1-3d(3). This project is required to comply with construction criteria of AR190-11, Ch. 4 and DCD 5100.76-M, Ch. 4 &amp; 5.</p>			
12. SUPPLEMENTAL DATA			
A. Estimated Design Data.			
(1) Status:			
(a) Design Start Date			Aug 87
(b) Percent Complete As Of 01 January 89 (BDGT YR)			100
(c) Percent Complete As Of 01 October 89 (PROG YR)			100
(d) Design Complete Date			Dec 88
(2) Basis:			
(a) Standard or Definitive Design - Yes <input type="checkbox"/> No <input type="checkbox"/>			
(b) Where Design Was Most Recently Used			
(3) Total Cost (a) = (a) + (b) or (d) + (e)			
(a) Production of Plans and Specifications			\$000
(b) All Other Design Costs			_____
(c) Total Cost			_____
(d) Contract			_____
(e) In-house			_____
(4) Construction Start			Apr 90
			month & year
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment <u>Nomenclature</u>	Procuring <u>Appropriation</u>	Fiscal Year <u>Appropriated</u> <u>Or Requested</u>	Cost <u>(\$000)</u>
None			

1. COMPONENT		2. DATE		
FY 1990 MILITARY CONSTRUCTION PROJECT DATA				
ARMY-PBS		JAN 83		
3. INSTALLATION AND LOCATION		4. PROJECT TITLE		
LEWIS ARMY AMMUNITION PLANT MISSOURI		Replace Storage Buildings		
5. PROGRAM ELEMENT	6. FISCAL YEAR	7. PROJECT NUMBER	8. PROJECT COST	
73011A	1985	26025	590	
			590	
9. COST ESTIMATES				
ITEM	U.M.	QUANTITY	UNIT COST	TOTAL COST
<u>Primary Facilities</u>				159
Primary Facility	LSI	-	-	159
<u>Supporting Facilities</u>				137
Electric Service	LSI	-	-	51
Site Improvement	LSI	-	-	35
HVAC	LSI	-	-	51
<u>Subtotal</u>				506
<u>Contingency (10.00%)</u>				51
<u>Total Contract Cost</u>				557
<u>Supervision, Inspection &amp; Overhead (5.50%)</u>				31
<u>Total Request</u>				588
<u>Total Request (Rounded)</u>				590
<u>Installed Equipment - Other Appropriations</u>				0
<p>10. Description of Proposed Construction Construct two (2) single story propellant storage buildings, approximately 51' x 25' x 11' with flat roofs, on existing or new foundations. The designer shall determine the adequacy of the existing foundations and floor slab by structural analysis, based upon the functional requirements and floor loads of storage stacks or forklifts, see note. If it is determined that new foundations/floor slabs are needed, the construction will include demolition of the existing foundations/floor slabs. Electricity and steam shall be provided to the buildings from the most economically feasible existing location. A properly sized heating system shall be installed for proper interior environment control and compressed air installed for pneumatic steam controls. Lighting and lightning protection should be provided and installed. The building truck docks shall be constructed to allow for angled truck docking and unloading.</p> <p>NOTE: Concrete strength test should be performed if the design concrete strength is not known, if it is suspected that the design concrete strength was not met during construction or damage has occurred due to fire/explosion.</p>				
<p>11. REQUIREMENT: 33,150 SF ADEQUATE: 30,600 SF SUBSTANDARD: None</p> <p>PROJECT: Replace two (2) propellant powder storage buildings that were destroyed by fire.</p>				

PREVIOUS EDITIONS MAY BE USED INTERNALLY  
UNTIL EXHAUSTED

1. COMPONENT		2. DATE																		
FY 1990 MILITARY CONSTRUCTION PROJECT DATA																				
ARMY-PBS	JAN 89																			
3. INSTALLATION AND LOCATION																				
4. PROJECT TITLE																				
Replace Storage Building		26225																		
<p><u>11. REQUIREMENT:</u> Continued:</p> <p><u>REQUIREMENT:</u> This project is required to provide replacement buildings for buildings destroyed by fire. The storage buildings need to be replaced to provide proper and adequate storage space for propellant powder.</p> <p><u>CURRENT SITUATION:</u> At the present time, trailers are used for storage when adequate space is not available. Powder lots are also being separated so powder can be stored where there is available space.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Continue to take ad hoc measures to compensate for insufficient storage space for propellant powder. Continue to store powder in trailers when necessary and pay demurrage charges on trailers. Proper security measures are not controllable with the use of trailers.</p> <p><u>ADDITIONAL:</u> This project is currently programmed in PSR Project 8903332 as Subproject 17.</p> <p>Estimated costs are in FY90 inflated \$000</p> <p>A 10 percent contingency factor is currently being used in accordance with project preparation guidance.</p> <p>Specific Mobilization Requirement: This project is needed to provide sufficient propellant powder storage facilities for mobilization production schedules.</p> <p>A Certificate of Savings in maintenance and operation is not required.</p> <p>DEH:kah</p> <p>Form No. 26225</p>																				
<p><u>12. SUPPLEMENTAL DATA:</u></p> <p>A. Estimated Design Data:</p> <p>(1) Status</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">(a) Design Start Date</td> <td style="text-align: right; border-bottom: 1px solid black;">Jan 88</td> </tr> <tr> <td>(b) Percent Complete As Of 01 January 89 (BDGT YR)</td> <td style="text-align: right; border-bottom: 1px solid black;">95</td> </tr> <tr> <td>(c) Percent Complete As Of 01 October 89 (PROG YR)</td> <td style="text-align: right; border-bottom: 1px solid black;">100</td> </tr> <tr> <td>(d) Design Complete Date</td> <td style="text-align: right; border-bottom: 1px solid black;">Feb 89</td> </tr> </table> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design - Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>(b) Where Design Was Most Recently Used _____</p> <p>(3) Total Cost (c) = (a)+(b) or (d)+(e): (5000)</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">(a) Production of Plans and Specifications</td> <td style="text-align: right; border-bottom: 1px solid black;">_____</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td style="text-align: right; border-bottom: 1px solid black;">_____</td> </tr> <tr> <td>(c) Total Cost</td> <td style="text-align: right; border-bottom: 1px solid black;">_____</td> </tr> <tr> <td>(d) Contract</td> <td style="text-align: right; border-bottom: 1px solid black;">_____</td> </tr> <tr> <td>(e) In-house</td> <td style="text-align: right; border-bottom: 1px solid black;">_____</td> </tr> </table> <p>(4) Construction Start <span style="float: right; border-bottom: 1px solid black;">Jun 90</span></p> <p style="text-align: right;">month &amp; year</p>			(a) Design Start Date	Jan 88	(b) Percent Complete As Of 01 January 89 (BDGT YR)	95	(c) Percent Complete As Of 01 October 89 (PROG YR)	100	(d) Design Complete Date	Feb 89	(a) Production of Plans and Specifications	_____	(b) All Other Design Costs	_____	(c) Total Cost	_____	(d) Contract	_____	(e) In-house	_____
(a) Design Start Date	Jan 88																			
(b) Percent Complete As Of 01 January 89 (BDGT YR)	95																			
(c) Percent Complete As Of 01 October 89 (PROG YR)	100																			
(d) Design Complete Date	Feb 89																			
(a) Production of Plans and Specifications	_____																			
(b) All Other Design Costs	_____																			
(c) Total Cost	_____																			
(d) Contract	_____																			
(e) In-house	_____																			

1. COMPONENT		2. DATE	
ARMY-883		JAN 89	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
3. INSTALLATION AND LOCATION			
Lake Bell Army Ammunition Plant, Missouri			
4. PROJECT TITLE		5. PROJECT NUMBER	
Replace Storage Building		16225	
6. SUPPLEMENTAL DATA (Continued)			
B. Equipment associated with this project which will be provided from other appropriations:			
<u>Equipment</u> <u>Nomenclature</u>	<u>Procuring</u> <u>Appropriation</u> None	<u>Fiscal Year</u> <u>Appropriated</u> <u>Or Requested</u>	<u>Cost</u> <u>\$000</u>

1. COMPONENT		FY 1990 MILITARY CONSTRUCTION PROJECT DATA		DATE	
ARMY-PBS				JAN 89	
2. INSTALLATION AND LOCATION		3. PROJECT TITLE			
Lake City Army Ammunition Plant, Missouri Alternate Electric Power for Waste					
5. PROGRAM ELEMENT	4. CATEGORY CODE	7. PROJECT NUMBER	6. PROJECT COST	1000	
	311	27410	140	140	
9. COST ESTIMATES					
ITEM	QTY	QUANTITY	UNIT COST	TOTAL	
<b>Primary Facility</b>					
Emergency Generators	15	-	-	215	
Subtotal					
				215	
Contingency (5.00%)				11	
Total Contract Cost				226	
Supervision, Inspection & Overhead (5.50%)				12	
Total Request				238	
Total Request (Rounded)				240	
Installed Equipment - Other Appropriations					
10. Description of Proposed Construction Installation of emergency motor generator sets (estimate 10 required) sized from 10 KV to 80 KV to provide secondary power for eleven (11) waste pumping stations. Each generator unit to be equipped with automatic starter, transfer switch, weathertight enclosure, fuel tank, block heater, battery and charger, ammeter and hour meter. Installation to include construction of suitable mounting pads, the replacement and rerouting of incoming power feeder to each generator and to point of use. Each generator to be provided with visible and audible alarm when emergency power is in use.					
NOTE: KV is abbreviation for Kilovolt-Amperes (KVA)					
11. REQUIREMENT: 820 KV ADEQUATE: None SUBSTANDARD: 1,100 KV					
PROJECT: Installation of ten (10) emergency motor-generator units to power the eleven (11) existing waste pumping stations in the event of primary power failure to any or all of those locations.					
REQUIREMENT: This project is needed to comply with Part I, Section B, Item 7 of the Standard Conditions for National Pollutant Discharge Elimination System (NPDES) Permits, the Missouri Department of Natural Resources, Missouri Clean Water Commission, October 1, 1980, which requires either:					
a. Provision of an alternate power source sufficient to operate the					

1. COMPONENT	FY 1990 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY-PBS		JAN 89
3. INSTALLATION AND LOCATION		
Lake City Army Ammunition Plant, Missouri		
4. PROJECT TITLE	5. PROJECT NUMBER	
Alternate Electric Power for Waste	ST410	
<p>11. REQUIREMENT (Continued):</p> <p><u>REQUIREMENT:</u> (Continued):</p> <p>waste water control facilities, or</p> <p>b. Halt or otherwise control production and all discharges upon loss of primary power to waste water control facilities.</p> <p><u>CURRENT SITUATION:</u> If localized power outages occur at pumping stations, the production operations discharging waste to those stations must be shut down to prevent a potential overflow and spill of untreated sanitary or industrial waste. The current emergency generating capability consists of a central 700 KV system and one portable 400 KV unit. The central system is dedicated to specific uses which do include the sewage treatment plants but not the pumping stations. The central system is operational only during total plant power outages and not useful for localized failures. The portable generator unit could be used to respond to specific locations, but the time required to recognize the power failure, to transport the generator to the site, to make the required connections and get the pump station back in operation could be too long to prevent a spill or a production shutdown.</p> <p><u>IMPACT IF NOT PROVIDED:</u> If this project is not implemented, Lake City Army Ammunition Plant will continue to operate under marginal compliance with the Government regulations covering the control of pollutant discharges. Without reliable alternate electrical power available to the waste pumping stations, the Plant will remain in jeopardy of shutdown as being the only means of preventing sanitary or industrial waste water spills.</p> <p><u>ADDITIONAL:</u> Justification for Exception of Economic Analysis is applicable for this item under provisions of paragraph 1-3d (3) AR 11-23, required by statute, regulation or directive.</p> <p>Specific Mobilization Requirement: This project is needed to support the mobilization production schedule which would otherwise be in jeopardy of shutdown as a means of preventing pollutant discharges.</p> <p>The Mobilization Plan includes this as IPP LCN No. 0042AE and AMCCOM Project Identification No. 3LC033. This project is currently programmed as Mod. Project No. 5902752.</p> <p>Estimated costs are in FY90 inflated \$000 and were provided by the Program Manager as the Corps of Engineers estimate for this project.</p> <p>Form No. 27410</p> <p>RLE:kah</p>		
12. SUPPLEMENTAL DATA:		
A. Estimated Design Data:		
(1) Status:		
(a) Design Start Date	May '88	
(b) Percent Complete As Of 01 January 89 (BDGT YR)	100	
(c) Percent Complete As Of 01 October 89 (PROG YR)	100	
(d) Design Complete Date	Nov 88	

1. COMPONENT		1. DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS		JAN 90	
2. INSTALLATION AND LOCATION			
Lake City Army Ammunition Plant, Missouri			
3. PROJECT TITLE		4. PROJECT NUMBER	
Alternate Electric Power for Waste		27411	
12. SUPPLEMENTAL DATA (Continued)			
A. Estimated Design Data: (Continued)			
(2) Basis:			
(a) Standard or Definitive Design - Yes <input type="checkbox"/> No <input type="checkbox"/>			
(b) Where Design Was Most Recently Used _____			
(3) Total Cost (c) = (a)-(b) or (d)-(e): _____ (\$000)			
(a) Production of Plans and Specifications _____			
(b) All Other Design Costs _____			
(c) Total Cost _____			
(d) Contract _____			
(e) In-house _____			
(4) Construction Start _____			
Apr 90 month & year			
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment <u>Nomenclature</u>	Procuring <u>Appropriation</u>	Fiscal Year <u>Appropriated</u> <u>Or Requested</u>	Cost <u>( \$000 )</u>
None			

1. COMPONENT		FY 1990 MILITARY CONSTRUCTION PROJECT DATA		2. DATE	
ARMY-PBS				JAN 89	
3. INSTALLATION AND LOCATION			4. PROJECT TITLE		
Lake City Army Ammunition Plant, Missouri Fire Detection and Deluge System					
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST	9. FUND	10. APPROVED
	343	17747		1.500	1.500
11. COST ESTIMATES					
ITEM	U/M	QUANTITY	UNIT PRICE	TOTAL	
<b>Primary Facility</b>					
Fire Detect/Deluge Sys.	LS	-	-	1,337	
				1,337	
<b>Subtotal</b>				1,337	
<b>Contingency (5.00%)</b>				67	
<b>Total Contract Cost</b>				1,404	
<b>Supervision, Inspection &amp; Overhead (5.50%)</b>				77	
<b>Total Request</b>				1,481	
<b>Total Request (Rounded)</b>				1,500	
<b>Installed Equipment - Other Appropriations</b>				0	
12. Description of Proposed Construction					
Installation of high speed ultraviolet fire detection and deluge systems in the following locations where propellant powder, pyrotechnic mixes, or high explosives are handled manually or present significant fire hazards to the operators.					
Building	Area	Material Handled			
1	Loading	Ball/Tracer Propellants			
2	Loading Mezzanine	Ball/Tracer Propellants			
2	Loading	Ball/Tracer Propellants			
2	Pulldown	Ball/Tracer Propellants			
3	Loading Mezzanine	Ball/Tracer Propellants			
3	Loading	Ball/Tracer Propellants			
3	Pulldown	Ball/Tracer Propellants			
4	Loading Mezzanine	Ball/Tracer Propellants			
4	Loading	Ball/Tracer Propellants			
23A	Pouring Dispensing	Blank Propellants			
23B	Pelleting	RDX High Explosive			
23C	Pelleting	RDX High Explosive			
65	Loading Mezzanine	20mm Propellants			
65	Loading	20mm Propellants			

1. COMPONENT		DATE	
ARMY-PBS		JAN 89	
2. INSTALLATION AND LOCATION			
Lake Clay Army Ammunition Plant, Missouri			
3. PROJECT TITLE		4. PROJECT NUMBER	
Fire Detection and Deluge System		07717	
5. DESCRIPTION OF PROPOSED CONSTRUCTION (Continued)			
55	Projectile Charging	Pyrotechnics & RDX	
67	Pulldown	20mm Propellants	
Installation to include ultraviolet (UV) fire detection units, deluge nozzels, alarm communications, wiring, controls and piping to provide complete serviceable systems.			
11. REQUIREMENT: 5,000 LF ADEQUATE: None SUBSTANDARD: None			
PROJECT: Installation of high speed ultraviolet (UV) fire detection and deluge systems to reduce the hazard to personnel and the facility in locations where propellant powders, pyrotechnics and high explosives are handled manually or present significant fire hazards to the operators			
REQUIREMENT: All of the fire protection deficiencies to be addressed by this project have been identified or are similar to those identified by the Department of Defense Explosive Safety Board after 1982 and 1983 inspections the United States Army Armament, Munitions and Chemical Command (AMCCOM) Safety Office during a 1984 survey, and by various safety consultants during 1985, 1986, and 1987. Reports from these inspections recommended that high speed fire detection and deluge systems be installed in the specifically identified locations to mitigate the hazard to personnel and property due to possible ignition of energetic materials being handled. Army Material Command Regulation (AMC-R) 385-100, paragraph 12-25, requires that deluge systems be provided in addition to sprinklers for protection of operating personnel in high hazard occupancies.			
CURRENT SITUATION: All locations specified in the Description of Proposed Construction section are equipped with standard heat activated sprinkler systems at the ceiling. Many of the sites also have similar sprinkler heads located directly above points of operation where energetic materials are poured or otherwise handled. Such sprinkler systems are activated by a fusible link in a matter of seconds compared to the reaction time of only milliseconds for UV detection and deluge systems recommended.			
IMPACT IF NOT PROVIDED: If this project is not implemented, the operations identified will remain at a higher risk to personnel and property due to the fire hazards associated with handling of propellants, pyrotechnics and high explosives. Continued operations under these circumstances will be contrary to the recommendations cited in the Requirement section and to AMC-R 385-100 directives.			
ADDITIONAL: Economic Justification for this project is not necessary. Although preservation of property is a positive economic consequence of this project, the main objective is the protection of operating personnel from possible fire hazards and the satisfaction of safety requirements set forth in AMC-R 385-100 and recommendations made by the various safety boards and consultants cited in the Requirement section.			
Specific Mobilization Requirement: This project is needed to protect the mobilization capability of the existing facility and equipment from fire damage.			

COMPONENT <b>FY 1990 MILITARY CONSTRUCTION PROJECT DATA</b>		DATE <b>JAN 89</b>																											
ARMY-PBS																													
1. INSTALLATION AND LOCATION <b>State Army Ammunition Plant, Missouri</b>																													
2. PROJECT TITLE <b>Fire Detection and Deluge System</b>		3. PROJECT NUMBER <b>17747</b>																											
<p><b>11. REQUIREMENT</b> Continued</p> <p><b>ADDITIONAL</b> Continued</p> <p>The Mobilization Plan includes the Buildings 3 and 33A elements of this project as deficiencies in industrial preparedness and have been identified by Local Control Numbers 0144EM and 0138EM and AMCCOM Project Identification Numbers 7LC026 and 7LC022 respectively. This project is currently programmed as MOD Project 5902700-28.</p> <p>Estimated costs are in FY90 inflated \$000 and were provided by the Program Manager as the Corps of Engineers estimate for this project.</p> <p>27747:RLE:kah</p>																													
<p><b>12. SUPPLEMENTAL DATA:</b></p> <p><b>A. Estimated Design Data:</b></p> <p>(1) Status:</p> <table style="width: 100%;"> <tr> <td>(a) Design Start Date</td> <td style="text-align: right;">May 88</td> </tr> <tr> <td>(b) Percent Complete As Of 01 January 89 (SDGT YR)</td> <td style="text-align: right;">100</td> </tr> <tr> <td>(c) Percent Complete As Of 01 October 89 (PRCG YR)</td> <td style="text-align: right;">100</td> </tr> <tr> <td>(d) Design Complete Date</td> <td style="text-align: right;">Nov 88</td> </tr> </table> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design - Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>(b) Where Design Was Most Recently Used _____</p> <p>(3) Total Cost (c) = (a)-(b) or (d)-(e): <span style="float: right;">(\$000)</span></p> <table style="width: 100%;"> <tr> <td>(a) Production of Plans and Specifications</td> <td style="text-align: right;">_____</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td style="text-align: right;">_____</td> </tr> <tr> <td>(c) Total Cost</td> <td style="text-align: right;">_____</td> </tr> <tr> <td>(d) Contract</td> <td style="text-align: right;">_____</td> </tr> <tr> <td>(e) In-house</td> <td style="text-align: right;">_____</td> </tr> </table> <p>(4) Construction Start <span style="float: right;">Apr 90</span> month &amp; year</p> <p><b>B. Equipment associated with this project which will be provided from other appropriations:</b></p> <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Equipment Nomenclature</th> <th style="text-align: left;">Procuring Appropriation</th> <th style="text-align: left;">Fiscal Year Appropriated Or Requested</th> <th style="text-align: left;">Cost (\$000)</th> </tr> </thead> <tbody> <tr> <td colspan="4" style="text-align: center;">None</td> </tr> </tbody> </table>				(a) Design Start Date	May 88	(b) Percent Complete As Of 01 January 89 (SDGT YR)	100	(c) Percent Complete As Of 01 October 89 (PRCG YR)	100	(d) Design Complete Date	Nov 88	(a) Production of Plans and Specifications	_____	(b) All Other Design Costs	_____	(c) Total Cost	_____	(d) Contract	_____	(e) In-house	_____	Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)	None			
(a) Design Start Date	May 88																												
(b) Percent Complete As Of 01 January 89 (SDGT YR)	100																												
(c) Percent Complete As Of 01 October 89 (PRCG YR)	100																												
(d) Design Complete Date	Nov 88																												
(a) Production of Plans and Specifications	_____																												
(b) All Other Design Costs	_____																												
(c) Total Cost	_____																												
(d) Contract	_____																												
(e) In-house	_____																												
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)																										
None																													

1. COMPONENT		DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PES		JAN 89	
2. INSTALLATION AND LOCATION		3. PROJECT TITLE	
Holston Army Ammunition Plant Tennessee Electrical Safety Connections			
4. PROGRAM ELEMENT	5. CATEGORY CODE	7. PROJECT NUMBER	6. PROJECT FISCAL YEAR
105		21531	1989
8. COST ESTIMATES			
ITEM	QTY	QUANTITY	COST
<b>Primary Facilities</b>			
New Construction	LSI	-	1,594
<b>Supporting Facilities</b>			
Paving, Walks, Curbs & Gutters	LSI	-	75
Subtotal			
			1,669
Contingency (5.00%)			83
Total Contract Cost			1,752
Supervision, Inspection & Overhead (5.50%)			96
Total Request			1,848
Total Request (Rounded)			1,850
Installed Equipment - Other Appropriations			194
10. Description of Proposed Construction Correct safety deficiencies for electrical system supplying explosives production buildings and support facilities to include: upgrading the existing lightning protection system by replacing grounding systems, masts and poles. Replacement of the poles is based on re-use of approximately half of the existing lightning poles; modifying the existing electrical services to provide underground building connections and installing secondary lightning arrestors; and correcting existing pole spacings for electrical distribution and area lighting systems.			
11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None			
PROJECT: This project will correct electrical distribution deficiencies at Holston related to the spacing between distribution line poles, provide underground electrical service to explosives operating buildings, and upgrade the lightning protection system for the explosives plant and support facilities to conform to the latest requirements of AMCR 385-100 Safety Manual dated August 1985. The project will benefit the present and future modernization, reactivation, and expansion projects for Holston since correction of these problems is required during these efforts. Efficiency will be gained by designing and installing the new systems under the same project rather than piecemeal under separate projects.			

FY 1990 MILITARY CONSTRUCTION PROJECT DATA		DATE
ARMY-PBS		JAN 88
INSTALLATION AND LOCATION		
Holston Army Ammunition Plant, Tennessee		
PROJECT TITLE		PROJECT NUMBER
Electrical Safety Connections		11501
<p><u>11. REQUIREMENTS</u> (Continued)</p> <p><u>REQUIREMENT:</u> Project 5872700 will correct electrical distribution and lightning protection deficiencies at Holston in accordance with AMCR 335-100 for all of the related projects listed below:</p>		
Project	Title	
-----	-----	
5852054	Mod Line 3, Comp C-4	
5862447	Modify/Convert/Reactivate	
5872439C	Backup Power	
5882439D	Improved Dryer, Bldg N-3	
5893000A	Mod Line 10, Comp A-5	
5892055	Mod Loading Dock	
5922439F	Ammonia Neutralization	
5922999	HMX/PBX Improvements	
5933000B	Mod Line 9, Comp A-3/A-4	
<p>Project 5873000A is programmed to correct lightning protection but not the other electrical distribution deficiencies.</p> <p><u>CURRENT SITUATION:</u> The lightning protection, pole spacing, and underground electrical service requirements of the Army Safety Manual are presently in violation at Holston. During modernization, reactivation, or reconfiguration of existing facilities, the Army Safety Community has insisted that the plant be brought into compliance with the "latest" regulations. This has presented some difficulty in the most of the presently active project designs were initiated prior to the adoption of the new regulations. During this period the subject deficiencies were not addressed. In addition, cost constraints will prevent cost growth on these current projects and the necessary project funds will not be available to correct the deficiencies. Start-up of the effected facilities will not be allowed by Safety until the corrections are made which could affect Holston's ability to meet projected FYDP, stockpiling, mobilization, or the set 1994 Modernization levels to which Holston is modernizing.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Facilities at Holston which are being modernized, reactivated or converted (reconfigured) for production of items in the current FYDP cannot be activated without correction of these deficiencies as per Army</p>		

1. COMPONENT		1. DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS		JAN 89	
2. INSTALLATION AND LOCATION			
Holston Army Ammunition Plant, Tennessee			
3. PROJECT TITLE		4. PROJECT NUMBER	
Electrical Safety Connections		11501	
11. REQUIREMENT Continued:			
IMPACT IF NOT PROVIDED: (Continued)			
Safety. Production shortfalls of RDX, HMX, and Compositions/PBX's using these items may occur if this project is not accomplished.			
ADDITIONAL: A Record of Environmental Consideration dated 3 April 1987 has been prepared. See SRP4.			
The appropriate safety submissions will be prepared and submitted.			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date			FEB 87
(b) Percent Complete As Of 01 January 89 EDCY YR.			100
(c) Percent Complete As Of 01 October 89 PROG YR			100
(d) Design Complete Date			NOV 87
(2) Basis:			
(a) Standard or Definitive Design - Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
(b) Where Design Was Most Recently Used NA			
(3) Total Cost (c) = (a)+(b) or (d)+(e): (\$000)			
(a) Production of Plans and Specifications			140
(b) All Other Design Costs			140
(c) Total Cost			140
(d) Contract			140
(e) In-house			140
(4) Construction Start			
			MAR 89
month & year			
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)
None			



1. COMPONENT		2. DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS		JAN 89	
3. INSTALLATION AND LOCATION			
HOLSTON ARMY AMMUNITION PLANT, Tennessee			
4. PROJECT TITLE		5. PROJECT NUMBER	
Construct Firebreaks		10700	
11. REQUIREMENT: Continued:			
IMPACT IF NOT PROVIDED: Continued:			
Impacts will occur unless a waiver can be obtained.			
ADDITIONAL: An economic analysis is not necessary for this project. All potential alternatives were examined in the development of this project and none were found to be feasible.			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date	NOV 87		
(b) Percent Complete As Of 01 January 89	BDGT YR		
(c) Percent Complete As Of 01 October 89	PROG YR		
(d) Design Complete Date	NOV 88		
(2) Basis:			
(a) Standard or Definitive Design - Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			
(b) Where Design Was Most Recently Used <u>HOLSTON AAP</u>			
(3) Total Cost (c) = (a)+(b) or (d)+(e): (\$000)			
(a) Production of Plans and Specifications	_____		
(b) All Other Design Costs	_____		
(c) Total Cost	_____		
(d) Contract	_____		
(e) In-house	_____		
(4) Construction Start _____			
JUN 89			
month & year			
3. Equipment associated with this project which will be provided from other appropriations:			
Equipment	Procuring	Fiscal Year	Cost
<u>Nomenclature</u>	<u>Appropriation</u>	<u>Appropriated</u>	<u>Or Requested</u>
	None		(\$000)

1. COMPONENT		2. DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-283		JAN 89	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
Holston Army Ammunition Plant, Tennessee		Gas Pipe Line	
5. PROGRAM ELEMENT	6. BUDGETARY CODE	7. PROJECT NUMBER	8. PROJECT DIST
	124	17075	10000
9. COST ESTIMATES			
ITEM	Q/M	QUANTITY	UNIT COST
Primary Facility			326
Corrosion Protection	LS	-	326
Subtotal			326
Contingency (5.00%)			16
Total Contract Cost			342
Supervision, Inspection & Overhead (5.50%)			19
Total Request			361
Total Request (Rounded)			360
Installed Equipment - Other Appropriations			3
10. Description of Proposed Construction Provide a corrosion protection system for the natural gas lines.			
11. REQUIREMENT: 1 EA ADEQUATE: None SUBSTANDARD: 1 EA			
PROJECT: Install a cathodic corrosion protection system for the 12-inch natural gas main that extends from the East Tennessee Natural Gas meter station on Long Island to Area B Steam Plant with laterals to the Administration Area and refuse incinerators. This job includes:			
(1) Testing of all dielectric fittings in the area to be protected			
(2) Verification of the electrical integrity of the pipeline by locator signal tracing or equivalent method			
(3) Location and elimination of all contacts with other metallic piping systems			
(4) Installation of test stations every 500 feet along the pipeline.			
REQUIREMENT: A Corrosion Reduction Survey Report No. E-8068, December 1980, pointed out that the gas line into the plant passes near several residential areas and has been unprotected cathodically for 14 years. Department of Transportation regulations require operators of all natural gas pipeline systems to provide cathodic protection.			
CURRENT SITUATION: There is no corrosion protection of the natural gas line			

1. COMPONENT		2. DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA		JAN 89	
ARMY-PBS			
3. INSTALLATION AND LOCATION			
HOLSTON ARMY AMMUNITION PLANT Tennessee			
4. PROJECT TITLE		5. PROJECT NUMBER	
Gas Pipe Line		07073	
11. REQUIREMENT: (Continued)			
CURRENT SITUATION: (Continued)			
from the East Tennessee Natural Gas meter station on Long Island to the Area B Steam Plant. The earth at the pipeline is moderately corrosive.			
IMPACT IF NOT PROVIDED: If this project is not approved, a maintenance deficiency and potential safety hazard will remain.			
ADDITIONAL: An economic analysis is not necessary for this project. All potential alternatives were examined in the development of this project and none were found to be feasible.			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date			NOV 87
(b) Percent Complete As Of 01 January 89 (BDGT YR)			100
(c) Percent Complete As Of 01 October 89 (PROG YR)			100
(d) Design Complete Date			NOV 88
(2) Basis:			
(a) Standard or Definitive Design - Yes		No	X
(b) Where Design Was Most Recently Used	HOLSTON AAP		
(3) Total Cost (c) = (a)-(b) or (d)-(e):			
(a) Production of Plans and Specifications			50000
(b) All Other Design Costs			
(c) Total Cost			
(d) Contract			
(e) In-house			
(4) Construction Start			
			JUN 90
			month & year
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment	Procuring	Fiscal Year	Cost
<u>Nomenclature</u>	<u>Appropriation</u>	<u>Appropriated</u>	<u>Or Requested</u>
	None		(\$000)



1. COMPONENT		2. DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS		FORM 43	
3. INSTALLATION AND LOCATION			
Milan Army Ammunition Plant, Tennessee			
4. PROJECT TITLE		5. PROJECT NUMBER	
Earth Covered Trench - Line B		13475	
11. REQUIREMENT (Continued)			
IMPACT IF NOT PROVIDED: Failure to approve this project will result in personnel continuing to be exposed to hazards that this project would eliminate.			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date	Feb 38		
(b) Percent Complete As Of 01 January 89 (BDGT YR)	100		
(c) Percent Complete As Of 01 October 89 (PROG YR)	100		
(d) Design Complete Date	Oct 33		
(2) Basis:			
(a) Standard or Definitive Design - Yes <input type="checkbox"/> No <input type="checkbox"/>			
(b) Where Design Was Most Recently Used _____			
(3) Total Cost (c) = (a)+(b) or (d)+(e): (\$000)			
(a) Production of Plans and Specifications _____			
(b) All Other Design Costs _____			
(c) Total Cost _____			
(d) Contract _____			
(e) In-house _____			
(4) Construction Start _____			
Apr 90			
Month & Year			
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment	Procuring	Fiscal Year	Cost
<u>Nomenclature</u>	<u>Appropriation</u>	<u>Appropriated</u>	<u>(\$000)</u>
None			

1. COMPONENT		FY 1990 MILITARY CONSTRUCTION PROJECT DATA		2. DATE	
ARMY-PBS				JAN 89	
3. INSTALLATION AND LOCATION			4. PROJECT TITLE		
Wheeler Army Ammunition Plant, Tennessee			Earth Covered Igloo - Line A		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST	9. FISCAL YEAR	
	422	13896	130	1990	
9. COST ESTIMATES					
ITEM	U/M	QUANTITY	UNIT COST	TOTAL COST	
<b>Primary Facility</b>					
Earth Covered Igloo - Line A	LS	-	-	349	
				349	
<b>Subtotal</b>				349	
<b>Contingency (5.00%)</b>				17	
<b>Total Contract Cost</b>				366	
<b>Supervision, Inspection &amp; Overhead (5.50%)</b>				20	
<b>Total Request</b>				386	
<b>Total Request (Rounded)</b>				390	
<b>Installed Equipment - Other Appropriations</b>				0	
<p>10. Description of Proposed Construction: The primary facility has permanent reinforced concrete floor and end walls and either corrugated metal or concrete arched top. This work is new construction, site adapted from standard Corps of Engineers drawings. Structure will be used for storage of explosive components. This project will include required utilities services and an enclosed personnel ramp. Not sited in a flood plain. No old facilities will be destroyed.</p>					
<p>11. <b>REQUIREMENT:</b> 1,500 SF ADEQUATE: None SUBSTANDARD: None</p> <p><b>PROJECT:</b> Construction of a 1500 sq. ft. earth covered storage magazine.</p> <p><b>REQUIREMENT:</b> Project is required to reduce the exposure of production personnel to explosive hazards and prevent production bottlenecks.</p> <p><b>CURRENT SITUATION:</b> Presently a backlog of grenades is maintained to allow assembly buildings to operate in the event of press shut-down for a short period. Railcars are now being used to hold this queue of grenades. Each railcar contains approximately 51,000 grenades. Sometimes as many as four rail-cars are required to hold this queue.</p> <p><b>IMPACT IF NOT PROVIDED:</b> Failure to approve this project will result in personnel continuing to be exposed to hazards that this project would</p>					

1. COMPONENT		DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA		JAN 89	
ARMY-PBS			
2. INSTALLATION AND LOCATION			
Miller Army Ammunition Plant, Tennessee			
4. PROJECT TITLE		5. PROJECT NUMBER	
Earth Covered Canal - Line 4		18896	
11. REQUIREMENT (Continued)			
IMPACT IF NOT PROVIDED (Continued)			
eliminate.			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date			Feb 88
(b) Percent Complete As Of 01 January 89 (BDGT YR)			100
(c) Percent Complete As Of 01 October 89 (PROG YR)			100
(d) Design Complete Date			Oct 88
(2) Basis:			
(a) Standard or Definitive Design - Yes	No		
(b) Where Design Was Most Recently Used			
(3) Total Cost (c) = (a)-(b) or (d)-(e): (\$000)			
(a) Production of Plans and Specifications			
(b) All Other Design Costs			
(c) Total Cost			
(d) Contract			
(e) In-house			
(4) Construction Start			
			Apr 90
Month & Year			
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)
None			

1. COMPONENT		3. DATE	
ARMY-PBS		JAN 89	
2. INSTALLATION AND LOCATION		4. PROJECT TITLE	
LONGHORNS ARMY AMMUNITION PLANT, TEXAS		Fire Alarm Reporting System	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST
	130	23713	309
9. COST ESTIMATES			
ITEM	QTY	QUANTITY	COST
Primary Facility			309
Fire Alarm Reporting System	130	-	309
Subtotal			
			309
Contingency (5.00%)			40
Total Contract Cost			349
Supervision, Inspection & Overhead (5.50%)			47
Total Request			396
Total Request (Rounded)			300
Installed Equipment - Other Appropriations			
10. Description of Proposed Construction Provide radio fire alarm reporting system to separately indicate an alarm at any existing fire alarm box location and sprinkler/deluge riser. Criteria to be followed is: (1) All boxes (transmitters) on utility poles are to be eliminated. No aerial interconnecting cabling between initiating device(s) and associated reporting device (radio alarm transmitter) is to be required. (2) Where practical, transmitters are to be installed on structure exteriors to allow public access (alarm initiating provision) to satisfy the need for street box type reporting locations. (3) Where practical, alarm transmitters are to be located and configured to serve auxiliary devices in more than one location to minimize the number transmitters required. Reporting for approximately one hundred thirty risers and ten manual stations is required. NOTE: The system shall be expandable for future requirements.			
11. REQUIREMENT: 130 BX ADEQUATE: None SUBSTANDARD: 130 BX PROJECT: A highly reliable, easily interpreted fire alarm reporting system is needed to assure minimum response time by fire fighting personnel and equipment. REQUIREMENT: Provide replacement of existing, antiquated World War II era			

1. COMPONENT		2. DATE	
ARMY-288		JAN 88	
3. PROJECT TITLE			
Longhorn Army Ammunition Plant, Texas			
4. PROJECT NUMBER		5. PROJECT NUMBER	
Fire Alarm Reporting System		18718	
<p><u>11. REQUIREMENT:</u> (Continued)</p> <p><u>REQUIREMENT:</u> (Continued)</p> <p>hard wired series fire alarm reporting system with modern, reliable, state-of-the-art radio type fire alarm reporting system. Radio systems are less susceptible to lightning damage, which results in outages, false alarms and repair expense than the existing hard wired or telephone multiplexing alarm reporting systems. Provisions of the requested system would bring all areas of the plant into compliance with current, existing NFPA standards and regulations related to fire alarm reporting systems.</p> <p><u>CURRENT SITUATION:</u> The existing Longhorn AAP fire alarm is a Type 3, Form 1 system. It was manufactured by the Gamewell Company and is an aerial wire telegraph system which allows manual and automatic initiation of alarm signals. A punched tape and register are encoded to denote the alarm box number. Each alarm box is assigned a specific number. Bells and registers are also located at Security Headquarters and COR Safety Offices.</p> <p>Initial installation of the telegraph system was made in 1942 for the Plant 1 TNT Area. Areas have been added to the system as the physical size of the plant increased to include pyrotechnic and rocket motor production areas (Plant 2 and 3). The central fire station cabinet was replaced in 1954 and other modifications were made in the mid-sixties. The system has been operating in its present configuration for twenty years.</p> <p>The alarm system utilizes overhead transmission lines which are very susceptible to interception of lightning. Lightning damage to alarm box mechanisms and fuses within the wiring system is common. The transmission lines are also becoming deteriorated and in need of replacement.</p> <p>Replacement of the telegraph system with a multiplex system, which used plant underground telephone cables, was programmed for FY78. The job was awarded to a small business minority enterprise which declared bankruptcy prior to work completion. Subsequent attempts by plant and other subcontract personnel to complete the work and provide a workable system proved futile. Nonstandard devices had been used and the transmitting units proved to be highly unreliable and susceptible to lightning. That system has been abandoned in place.</p> <p>The existing Gamewell system is becoming aged and availability of replacement parts into the 1990's should not be assumed. Address locations are also becoming limited as new facilities and zones of deluge fire protection are added. Rapid recognition of alarm location, even by trained personnel, is becoming more difficult. The potential exists that an alarm will not be received, false alarms will be received, and that fast, accurate determination of alarm location cannot be made.</p> <p><u>IMPACT IF NOT PROVIDED:</u> The plant fire alarm system will continue to deteriorate with age. Fire alarm data will not be as accurate, timely or reliable as it ought to be. Probability of major property loss, due to lack</p>			

1. COMPONENT		2. DATE	
<b>FY 1990 MILITARY CONSTRUCTION PROJECT DATA</b>			
ARMY-988		PAGE 11	
3. INSTALLATION AND LOCATION			
BANDERBERRY ARMY AMMUNITION PLANT, TEXAS			
4. PROJECT TITLE		5. PROJECT NUMBER	
Fire Alarm Reporting System		18711	
11. REQUIREMENTS (Continued)			
IMPACT IF NOT PROVIDED: (Continued)			
of, or inadequate notification will increase. The ability of the Plant Fire Protection force to perform its assigned mission would be degraded.			
ADDITIONAL: A Format 3 economic analysis has been prepared for this project and is included in this document.			
The status quo is not an acceptable alternative. It does not provide the degree of reliability, protection, and potential cost avoidance deemed necessary.			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date	.....	Jul 88	
(b) Percent Complete As Of 01 January 89 (BDGT YR)	.....	100	
(c) Percent Complete As Of 01 October 89 (PROG YR)	.....	100	
(d) Design Complete Date	.....	Nov 88	
(2) Basis:			
(a) Standard or Definitive Design - Yes	___	No	___
(b) Where Design Was Most Recently Used	_____		
(3) Total Cost (c) = (a)-(b) or (d)-(e)			
(a) Production of Plans and Specifications	\$000		
(b) All Other Design Costs	_____		
(c) Total Cost	_____		
(d) Contract	_____		
(e) In-house	_____		
(4). Construction Start			
.....			Apr 90
			month & year
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)
None			



1. COMPONENT		DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS		PAGE 32	
2. INSTALLATION AND LOCATION			
CONROGER ARMY AMMUNITION PLANT, Texas			
3. PROJECT TITLE		4. PROJECT NUMBER	
Security Fencing and Signs		28704	
11. REQUIREMENT (Continued)			
IMPACT IF NOT PROVIDED: (Continued)			
With age. An adequate, definable boundary will become more difficult to maintain and restricted areas will not be properly identified.			
ADDITIONAL: This project has been reviewed for environmental impact and it has been determined that this project qualifies for a categorical exclusion. A safety site plan/safety submission is not required for this project.			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date			May 88
(b) Percent Complete As Of 01 January 89 (BDGT YR)			100
(c) Percent Complete As Of 01 October 89 (PROG YR)			100
(d) Design Complete Date			Nov 88
(2) Basis:			
(a) Standard or Definitive Design - Yes	___	No	___
(b) Where Design Was Most Recently Used			
(3) Total Cost (c) = (a)+(b) or (d)+(e): (\$000)			
(a) Production of Plans and Specifications			___
(b) All Other Design Costs			___
(c) Total Cost			___
(d) Contract			___
(e) In-house			___
(4) Construction Start			
			Apr 90
			month & year
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)
None			

1. COMPONENT		2. DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS		JAN 89	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
REPLACE FIVE BARRICADES			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST \$100
004	1014	0000	1,152
9. COST ESTIMATES			
ITEM	QTY	QUANTITY	COST \$100
<b>Primary Facility</b>			
REPLACE FIVE BARRICADES	LS	-	(1,152)
Subtotal			
			1,152
Contingency (10.00%)			115
Total Contract Cost			1,267
Supervision, Inspection & Overhead (5.50%)			70
Total Request			1,337
Total Request (Rounded)			1,350
Installed Equipment - Other Appropriations			
10. Description of Proposed Construction Completely remove and reconstruct barricades for five active propellant operating buildings. Not sited in a flood plain.			
11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None			
PROJECT: Replace three multi-story and two single-story, double revatted wooden, earth filled barricades with three multi-story and two single-story barricades. The project must remove and re-install utilities, process piping and ductwork passing through or attached to the barricades. Also, the floors and roofs through the barricade portals are to be replaced. Deteriorated escape chutes and support framing are to be replaced and the surface drainage is to be diverted away from the barricade foundation. Upgrade the electrical lighting and wiring to meet the latest codes. Note: Rather than upgrade the 1940's open wiring and nonconforming electrical at all the facilities at RAAP at one time, it has been previously decided to correct the conditions when major work is performed on individual buildings. New wiring and conduit on barricades corrects the majority of the requirements.			
REQUIREMENT: This project is the eleventh phase of an annual replacement program for the barricades at this plant which were erected in the 1940-41 period. Fifty-four barricades in Phase I (FY-80) through Phase VII (FY-86) have been completed. Thirteen barricades are being replaced in FY-87 and 88.			

1. COMPONENT		2. DATE																											
FY 1990 MILITARY CONSTRUCTION PROJECT DATA																													
3. ARMY-PBS		DD FORM 1391C																											
4. INSTALLATION AND LOCATION																													
5. PROJECT TITLE																													
6. PROJECT NUMBER		7. PROJECT NAME																											
Replace Five Barricades		1916-																											
<p><u>11. REQUIREMENT:</u> Continued</p> <p><u>REQUIREMENT:</u> (Continued)</p> <p>Repairs to many of these barricades have become excessive and cannot keep up with the rate of deterioration, and the structural integrity cannot be assured.</p> <p><u>CURRENT SITUATION:</u> 240 barricades are required at this plant to meet current production schedules and for mobilization. A portion of these can be maintained for the next 20 years. The remaining ones must be replaced because of decaying of the major structural components. A replacement program has been started to renew the barricades at these buildings, a few each year, beginning with the ones that are in greatest need of replacement.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Without adequate barricades, RAAP could not continue to operate within existing intraline quantity distances.</p>																													
<p><u>12. SUPPLEMENTAL DATA:</u></p> <p>A. Estimated Design Data:</p> <p>(1) Status:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">(a) Design Start Date</td> <td style="text-align: right; border-bottom: 1px solid black;">Aug 88</td> </tr> <tr> <td>(b) Percent Complete As Of 01 January 89 (BDGT YR)</td> <td style="text-align: right; border-bottom: 1px solid black;">100</td> </tr> <tr> <td>(c) Percent Complete As Of 01 October 89 (PROG YR)</td> <td style="text-align: right; border-bottom: 1px solid black;">100</td> </tr> <tr> <td>(d) Design Complete Date</td> <td style="text-align: right; border-bottom: 1px solid black;">Dec 88</td> </tr> </table> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design - Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>(b) Where Design Was Most Recently Used _____</p> <p>(3) Total Cost (c) = (a)-(b) or (d)-(e): <span style="float: right;">\$000</span></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">(a) Production of Plans and Specifications</td> <td style="text-align: right; border-bottom: 1px solid black;">_____</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td style="text-align: right; border-bottom: 1px solid black;">_____</td> </tr> <tr> <td>(c) Total Cost</td> <td style="text-align: right; border-bottom: 1px solid black;">_____</td> </tr> <tr> <td>(d) Contract</td> <td style="text-align: right; border-bottom: 1px solid black;">_____</td> </tr> <tr> <td>(e) In-house</td> <td style="text-align: right; border-bottom: 1px solid black;">_____</td> </tr> </table> <p>(4) Construction Start <span style="float: right; border-bottom: 1px solid black;">Apr 90</span> month &amp; year</p> <p>B. Equipment associated with this project which will be provided from other appropriations:</p> <table style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: left; width: 30%;">Equipment Nomenclature</th> <th style="text-align: left; width: 30%;">Procuring Appropriation</th> <th style="text-align: left; width: 20%;">Fiscal Year Appropriated Or Requested</th> <th style="text-align: left; width: 20%;">Cost (\$000)</th> </tr> </thead> <tbody> <tr> <td colspan="4" style="text-align: center; padding-top: 10px;">None</td> </tr> </tbody> </table>				(a) Design Start Date	Aug 88	(b) Percent Complete As Of 01 January 89 (BDGT YR)	100	(c) Percent Complete As Of 01 October 89 (PROG YR)	100	(d) Design Complete Date	Dec 88	(a) Production of Plans and Specifications	_____	(b) All Other Design Costs	_____	(c) Total Cost	_____	(d) Contract	_____	(e) In-house	_____	Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)	None			
(a) Design Start Date	Aug 88																												
(b) Percent Complete As Of 01 January 89 (BDGT YR)	100																												
(c) Percent Complete As Of 01 October 89 (PROG YR)	100																												
(d) Design Complete Date	Dec 88																												
(a) Production of Plans and Specifications	_____																												
(b) All Other Design Costs	_____																												
(c) Total Cost	_____																												
(d) Contract	_____																												
(e) In-house	_____																												
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)																										
None																													

1. COMPONENT		2. DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS		JAN 89	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
Radford Army Ammunition Plant, Virginia		Replace Hazardous Waste Storage	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST YEAR
302		03001	1990
9. COST ESTIMATES			
ITEM	U.S. QUANTITY	UNIT COST	TOTAL COST
<b>Primary Facility</b>			
CONCRETE TANKS	CY	1,500 @ 296.00	444,000
BEKAPLAST LINER	SF	22,400 @ 25.00	560,000
ENVIROPAX TUBE SETTLERS	SF	4,000 @ 15.00	60,000
TUBE SETTLERS - FRAME	EA	4 @ 4,300	17,200
TUBE SETTLERS - BAFFLE	EA	4 @ 1,080	4,320
See Cost Estimates (Continued)			908,000
Subtotal			1,997,000
Contingency (10.00%)			200,000
Total Contract Cost			2,197,000
Supervision, Inspection & Overhead (5.50%)			121,835
Total Request			2,318,835
Total Request (Rounded)			2,319,000
Installed Equipment - Other Appropriations			
10. Description of Proposed Construction			
1. EXCAVATION AND SITE WORK.			
2. CONSTRUCT A TANK/TANKS WITH CONCRETE WALLS AND CONCRETE FLOORS TO REPLACE AN EQUALIZATION BASIN OF APPROXIMATELY 1 MILLION GALLONS CAPACITY. THIS TANK/TANKS SHOULD PROVIDE EQUALIZATION OF UP TO 12 MILLION GALLONS/DAY OF ACIDIC WASTEWATER AND SETTLE APPROXIMATELY 1,000 POUNDS OF NITROCELLULOSE FINES PER DAY.			
3. LINE THE TANK/TANKS WITH ACID RESISTANT BEKAPLAST SYSTEM.			
4. TANK/TANKS TO BE USED IN CONJUNCTION WITH THE PRETREATMENT FACILITY TO EQUALIZE PH.			
11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None			
PROJECT. CONSTRUCT A CONCRETE ACID BRICK LINED TANK/TANKS TO REPLACE THE LINED LAGOON AT HAZARDOUS WASTE MANAGEMENT SITE NO. 4. THE TANK/TANKS WILL BE DESIGNED TO SERVE AS AN EQUALIZATION TANK FOR VARIABLE WASTEWATER FLOW AND VARIABLE WASTE ACID CONCENTRATION. THE WASTEWATER THAT FLOWS TO THIS TANK/TANKS INCLUDES 5 TO 12 MILLION GALLONS PER DAY OF PROCESS WASTE FROM THE ACID AND A AND B NITROCELLULOSE AREAS, PLUS LEAKS AND SPILLS OF VARIOUS QUANTITY AND CONCENTRATION FROM THE ACID TANK FARMS. THE PRETREATMENT PLANT WILL REMAIN IN OPERATION TO ASSIST IN TREATING MAJOR ACID SPILLS. THE EQUALIZATION TANK/S SHOULD BE DESIGNED FOR SETTLING APPROXIMATELY 1,000 POUNDS			

1. COMPONENT		2. DATE	
ARMY-PBS		FY 1990 MILITARY CONSTRUCTION PROJECT DATA	
3. INSTALLATION AND LOCATION		FAC 12	
4. PROJECT TITLE			
Replace Hazardous Waste Surface		19001	
5. Cost Estimates (Continued)			
Item	U/M	Quantity	Unit Cost Cost \$100
Primary Facility (Continued)			
HANDRAILS - SS	LF	1,000	40.00 40
4' FIBERGLASS GRATING WALKWAYS, E	LF	164	540.00 89
FILL AND COMPACTION	CY	23,325	1.91 54
EXCAVATION - BASINS	CY	6,125	2.40 15
EXCESS FILL - REMOVAL FROM SITE	CY	6,125	2.40 15
GRAVEL - 12 AGGREGATE BASE	CY	1,500	28.00 42
PAVING - 1 ASPHALT	SY	4,444	7.30 32
160 CLAY PIPE-ACID SEWER - REMOV	LF	140	75.00 11
160 CLAY PIPE - ACID SEWER	LF	273	210.59 58
240 CLAY PIPE - ACID SEWER	LF	135	87.05 16
20 PVC SCH 80 - AIR PIPE	LF	700	5.45 4
PVC SCH 80 - CHEM PIPE	LF	700	5.45 4
2 PVC QUICK CONNECTS W/VALVES	EA	3	60.54
MANHOLES 4' DEEP	EA	4	6,346 25
MANHOLES 8' DEEP	EA	4	11,904 48
CHANNELS - CONCRETE	CY	130	296.00 38
CHANNELS - BEKAPLAST LINER	SF	2,715	25.00 68
CHANNELS - FLOW CONTROL GATES	EA	4	5,385 22
TRUCK GRATING	LF	30	320.00 26
CAUSTIC STORAGE TANKS - GFE	EA	3	4,300 13
CAUSTIC STORAGE CONCR FOUND	CY	13.00	250.00 11
CAUSTIC STORAGE - DIKES	CY	10.00	250.00 1
CAUSTIC STORAGE - SADDLES	CY	37.00	250.00 9
CAUSTIC PIPING	LS	-	- 10
40 PVC SCH 80 - CHEM PIPING	LF	300	10.00 3
CAUSTIC STORAGE - PUMPS	EA	6	4,300 24
CAUSTIC STORAGE - COATING	SY	539	5.00 3
DIVERSION STRUCTURE	EA	1	25,000 25
BLOWER PAD/BLOWER AID PIPING	LS	-	- 75
CHEM PUMPS AND PIPING	LS	-	- 20
LEAK MONITORING SYSTEM	LF	1,000	20.00 20
SITE UTILITIES	LS	-	- 36
Total			908

OF NITROCELLULOSE FINES PER DAY AND HAVE PROVISIONS FOR REMOVING THE NITROCELLULOSE FINES.

**REQUIREMENT:** TO AVOID A VIOLATION OF THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) REGULATIONS. THERE WAS AN EXISTING LAGOON THAT WAS BEING USED AS AN EQUALIZATION BASIN FOR ACIDIC WASTEWATER. THE LAGOON DID NOT COMPLY WITH RCRA REGULATIONS AND WAS TAKEN FROM SERVICE IN NOVEMBER 1988. AN EQUALIZATION BASIN IS REQUIRED BY THE PLANT NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT. REPLACEMENT OF THE LAGOON WITH A TANK/TANKS WILL COMPLY WITH

1. COMPONENT		2. DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-985		PAGE 18	
3. INSTALLATION AND LOCATION			
4. PROJECT TITLE			
Replace Hazardous Waste Lattice			
11. REQUIREMENT (Continued)			
BOTH RCRA AND NPDES REQUIREMENTS.			
<p><u>CURRENT SITUATION:</u> THE PLANT IS NOT IN VIOLATION AT THE PRESENT TIME BECAUSE THE EXISTING LAGOON HAS BEEN TAKEN FROM SERVICE. INTERIM STATUS UNDER PART A OF RCRA AND COMPLIANCE MONITORING IS IN PROGRESS. CONSTRUCTION OF A PRETREATMENT PLANT HAS BEEN COMPLETED. IT WILL BE USED TO FEED SODIUM HYDROXIDE TO ASSIST IN TREATING ACID SPILLS.</p> <p><u>IMPACT IF NOT PROVIDED:</u> THE EXISTING LAGOON AT HAZARDOUS WASTE MANAGEMENT SITE NO. 4 WAS CLOSED IN NOVEMBER 1988. FACILITIES TO EQUALIZE ACID WASTEWATER FLOW AND TO SETTLE NITROCELLULOSE FINES WILL NOT BE AVAILABLE. LACK OF EQUALIZATION WILL VIOLATE THE NPDES PERMIT AND COULD RESULT IN FINES, PENALTIES AND BAD PUBLICITY FOR THE ARMY.</p> <p><u>ADDITIONAL:</u> AN ECONOMIC ANALYSIS FOR THIS PROJECT IS EXEMPT IN ACCORDANCE WITH PARAGRAPH 1-3D(3) OF AR 11-28. IT IS REQUIRED TO MEET RCRA REQUIREMENTS</p>			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date .....			7 / 88
(b) Percent Complete As Of 01 January 89 (BDGT YR) .....			95
(c) Percent Complete As Of 01 October 89 (PROG YR) .....			100
(d) Design Complete Date .....			3, 89
(2) Basis:			
(a) Standard or Definitive Design - Yes <input type="checkbox"/> No <input type="checkbox"/>			
(b) Where Design Was Most Recently Used .....			
(3) Total Cost (c) = (a)-(b) or (d)-(e):			
(a) Production of Plans and Specifications .....			\$000
(b) All Other Design Costs .....			_____
(c) Total Cost .....			_____
(d) Contract .....			_____
(e) In-house .....			_____
(4) Construction Start .....			JAN 90
			month & year
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment	Procuring	Fiscal Year	Cost
<u>Nomenclature</u>	<u>Appropriation</u>	<u>Appropriated</u>	<u>(\$000)</u>
	None		

1. COMPONENT		2. DATE	
<b>FY 1990 MILITARY CONSTRUCTION PROJECT DATA</b>			
ARMY-PBS		JAN 89	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
Rancho Army Ammunition Plant, Arizona		Construction Sludge Drying Bed	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST
		Actual	187
	111	1990	Approved 230
<b>9. COST ESTIMATES</b>			
ITEM	QTY	QUANTITY	UNIT COST
<b>Primary Facility</b>			
SLUDGE DRYING BED	LSI	-	-
			237
<b>Subtotal</b>			
			237
<b>Contingency (10.00%)</b>			
			24
<b>Total Contract Cost</b>			
			261
<b>Supervision, Inspection &amp; Overhead (5.50%)</b>			
			14
<b>Total Request</b>			
			275
<b>Total Request (Rounded)</b>			
			280
<b>Installed Equipment - Other Appropriations</b>			
			0
10. Description of Proposed Construction			
PROVIDE FACILITIES FOR DRYING SLUDGE FROM THE BIOLOGICAL WASTEWATER TREATMENT PLANT. MAJOR ITEMS TO INCLUDE SITE WORK, UTILITIES, CONCRETE WALLS, SAND BEDS, PIPE UNDER DRAIN SYSTEM, LINES, AND PUMP AND FORCE MAIN FOR PUMPING OF WATER COLLECTED BY THE UNDER DRAIN SYSTEM.			
11. REQUIREMENT: 20,000 SQ ADEQUATE: None SUBSTANDARD: None			
PROJECT: PROVIDE FACILITIES FOR DRYING SLUDGE FROM THE BIOLOGICAL WASTEWATER TREATMENT PLANT. MAJOR ITEMS TO INCLUDE SITE WORK, UTILITIES, CONCRETE WALLS, AND BEDS, PIPE UNDER DRAIN SYSTEM, LINE, SLUDGE DRAIN LINE, AND PUMP AND FORCE MAIN FOR PUMPING OF WATER COLLECTED BY THE UNDER DRAIN SYSTEM.			
REQUIREMENT: IT IS NEEDED NOW BECAUSE THE EXISTING VACUUM BELT FILTER IS OVERLOADED AND FACILITIES ARE NEEDED TO HANDLE THE EXTRA SLUDGE AND ALL OF THE SLUDGE WHEN THE SLUDGE PRESS IS DOWN FOR MAINTENANCE.			
CURRENT SITUATION: THE EXTRA SLUDGE IS HANDLED BY OPERATING THE EXISTING VACUUM BELT FILTER MORE HOURS AND BY PUMPING THE SLUDGE TO AN UNLINED TEMPORARY DRYING BED WHEN THE VACUUM BELT FILTER IS DOWN FOR MAINTENANCE.			
IMPACT IF NOT PROVIDED: IF THE PROJECT IS NOT APPROVED THE PLANT MAY BE FORCED TO DISPOSE OF SLUDGE IN AN UNLINED LAGOON WHICH MAY CONTAMINATE THE GROUNDWATER.			

1. COMPONENT		2. DATE	
FY 1990 MILITARY CONSTRUCTION PROJECT DATA		JAN 89	
ARMY-PBS			
3. INSTALLATION AND LOCATION			
Raridon Army Ammunition Plant, Maryland			
4. PROJECT TITLE		5. PROJECT YEAR	
Construction Sludge Dewater Bed		1990	
11. REQUIREMENT (Continued)			
ADDITIONAL: AN ECONOMIC ANALYSIS FOR THIS PROJECT IS EXEMPT IN ACCORDANCE WITH PARAGRAPH 1-3D(3) OF AR 11-38.			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date	.....	Sep 88	
(b) Percent Complete As Of 01 January 89 (BDGT YR)	.....	75	
(c) Percent Complete As Of 01 October 89 (PROG YR)	.....	100	
(d) Design Complete Date	.....	APR 89	
(2) Basis:			
(a) Standard or Definitive Design - Yes	.....	No	
(b) Where Design Was Most Recently Used	.....		
(3) Total Cost (c) = (a)-(b) or (d)-(e):			
(a) Production of Plans and Specifications	.....	\$000	
(b) All Other Design Costs	.....		
(c) Total Cost	.....		
(d) Contract	.....		
(e) In-house	.....		
(4) Construction Start			
		Jun 90	
		Month & Year	
3. Equipment associated with this project which will be provided from other appropriations:			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)
None			

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ARMY PRODUCTION BASE SUPPORT - FY 1991

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DEPARTMENT OF THE ARMY  
FISCAL YEAR 1991  
MILITARY CONSTRUCTION - PBS  
DOLLARS ARE IN THOUSANDS  
TOTAL THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION COMMAND PROJECT TITLE	AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PERCENT DESIGN	PAGE
Alabama		Redstone Arsenal (AMC)				1
	19143	Operations Building	1,900	1,900	NA	1
	31129	Calibration Laboratory	540	540	NA	1
		SUBTOTAL Redstone Arsenal	\$ 2,540	2,540		
		* TOTAL PBS FOR Alabama	\$ 2,540	2,540		
Indiana		Indiana Army Ammunition Plant (AMC)				3
	28688	Roof/Ceiling Insulation	430	430	NA	3
		SUBTOTAL Indiana Army Ammunition Plant	\$ 430	430		
		Newport Army Ammunition Plant (AMC)				7
	28132	Chemical Area Energy Reduction Program	1,500	1,500	NA	7
		SUBTOTAL Newport Army Ammunition Plant	\$ 1,500	1,500		
		* TOTAL PBS FOR Indiana	\$ 1,930	1,930		
Iowa		Iowa Army Ammunition Plant (AMC)				10
	31278	Construct Truck Docks	530	530	NA	10
	31279	Upgrade Building 100-148 HVAC	240	240	NA	10
		SUBTOTAL Iowa Army Ammunition Plant	\$ 370	370		
		* TOTAL PBS FOR Iowa	\$ 370	370		
Louisiana		Louisiana Army Ammunition Plant (AMC)				14
	6288	Surface Roads Area L-3	400	400	NA	14
		SUBTOTAL Louisiana Army Ammunition Plant	\$ 400	400		
		* TOTAL PBS FOR Louisiana	\$ 400	400		

DEPARTMENT OF THE ARMY  
FISCAL YEAR 1991  
MILITARY CONSTRUCTION PBS  
DOLLARS ARE IN THOUSANDS  
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION COMMAND PROJECT TITLE	AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PERCENT DESIGN	PAGE
Missouri		Lake City Army Ammunition Plant (AMC)				19
	27734	Rehabilitate Lightning Protection	530	530	NA	19
	28957	Construct Storage Facility	570	570	NA	22
		SUBTOTAL Lake City Army Ammunition Plant	\$ 1,200	1,200		
		* TOTAL PBS FOR Missouri	\$ 1,200	1,200		
Tennessee		Holston Army Ammunition Plant (AMC)				24
	5022	Replace Magazine Bridge	4,352	4,352	NA	24
	22527	Modernize Steam Headers	2,050	2,050	NA	25
		SUBTOTAL Holston Army Ammunition Plant	\$ 6,402	6,402		
		Milan Army Ammunition Plant (AMC)				29
	28049	Metrollogy Laboratory	460	460	NA	29
		SUBTOTAL Milan Army Ammunition Plant	\$ 460	460		
		* TOTAL PBS FOR Tennessee	\$ 6,862	6,862		
Texas		Lone Star Army Ammunition Plant (AMC)				31
	29631	Pyrotechnic Production	4,400	4,400	NA	31
		SUBTOTAL Lone Star Army Ammunition Plant	\$ 4,400	4,400		
		Longhorn Army Ammunition Plant (AMC)				34
	16686	Construct Fire Station	640	640	NA	34
	23464	Pyrotechnic Safety Enhancement	1,250	1,250	NA	36
	31199	Construct MUSALL Complex	64,000	64,000	NA	39
		SUBTOTAL Longhorn Army Ammunition Plant	\$ 65,890	65,890		
		* TOTAL PBS FOR Texas	\$ 70,290	70,290		

DEPARTMENT OF THE ARMY  
FISCAL YEAR 1991  
MILITARY CONSTRUCTION - PBS  
DOLLARS ARE IN THOUSANDS  
INSIDE THE UNITED STATES

STATE	PROJECT NUMBER	INSTALLATION (COMMAND) PROJECT TITLE	AUTHORIZATION REQUEST	APPROPRIATION REQUEST	PERCENT DESIGN	PAGE
Virginia		Radford Army Ammunition Plant (AMC)				41
	29596	Replace Five Barricades	1,150	1,150	NA	41
	29601	Fuel Storage and Dispensing Station	90	90	NA	43
		SUBTOTAL Radford Army Ammunition Plant	\$ 1,240	1,240		
		* TOTAL PBS FOR Virginia	\$ 1,240	1,240		
		**TOTAL INSIDE THE UNITED STATES FOR PBS	\$ 85,332	85,332		

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DEPARTMENT OF THE ARMY  
MILITARY CONSTRUCTION (PES) FY 1991

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Lake City Army Ammunition Plant	AMC	19
Loose Star Army Ammunition Plant	AMC	31
Longhorn Army Ammunition Plant	AMC	34
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Redstone Arsenal	AMC	1

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1. COMPONENT		FY 1991 MILITARY CONSTRUCTION PROJECT DATA		2. DATE	
ARMY-PBS				JAN 89	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE			
Redstone Arsenal Alabama		Operations Building			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST	9. FUND	10. FISCAL YEAR
79011A	222	13143	1,900	1,900	1,900
9. COST ESTIMATES					
ITEM	UNIT	QUANTITY	UNIT COST	TOTAL COST	
<b>Primary Facility</b>					
Operations Building	SF	25,509	55.00	1,403 (1,403)	
<b>Supporting Facilities</b>					
Electric Service	LS	-	-	248 (11)	
Water, Sewer & Gas	LS	-	-	58 (58)	
Paving, Walks, Curbs & Gutters	LS	-	-	90 (90)	
Storm Drainage	LS	-	-	12 (12)	
Site Improvement	LS	-	-	67 (67)	
<b>Subtotal</b>				1,651	
<b>Contingency (10.00%)</b>				165	
<b>Total Contract Cost</b>				1,816	
<b>Supervision, Inspection &amp; Overhead (5.60%)</b>				102	
<b>Total Request</b>				1,918	
<b>Total Request (Rounded)</b>				1,900	
<b>Installed Equipment - Other Appropriations</b>				(18)	
13. Description of Proposed Construction: An Operations Building is needed to house production support functions. These support functions will include office areas for production, industrial engineering, safety planning and other related functions that support line operations. Also included will be a replacement facility for medical/first aid and the photo lab/print shop.					
11. REQUIREMENT: 25,509 SF ADEQUATE: None SUBSTANDARD: 17,835 SF					
PROJECT: This project provides housing for support personnel now scattered throughout the plant. A new administration facility of approximately 25,509 square feet is needed.					
REQUIREMENT: These personnel are currently performing the functions of production/manufacture control, photographic, industrial engineering, safety supervision and other operational support activities from undersized and old World War II facilities that have exceeded their useful life. Most of these old facilities do not meet quantity distance requirements as specified by the new and revised Safety Manual AR 385-100. Operation is permitted now only through "grandfather clauses". Due to the fact that these old facilities do not meet quantity distance requirements, administrative personnel can not occupy space in these old facilities. The areas which will be vacated by the admin personnel will be utilized by operating personnel, if required, or					

1. COMPONENT	2. DATE
AFMOT-888	FY 1991 MILITARY CONSTRUCTION PROJECT DATA
3. INSTALLATION AND LOCATION	
Peterson AFB, Alabama	
4. PROJECT TITLE	5. PROJECT NUMBER
Operations Building	13143

11. REQUIREMENT (Continued)

REQUIREMENT (Continued):  
 utilized as minimum maintenance areas. On-site review teams have determined that additional funding for rehabilitating these old facilities will not be allocated.

CURRENT SITUATION: Production support personnel are in numerous scattered facilities throughout the plant. The majority are in World War II facilities that have exceeded their useful life and violate quantity distance limitations as specified in the revised AR 385-100 for housing administrative personnel. In addition, where these old facilities have been "outgrown", temporary trailers are being rented to house personnel.

IMPACT IF NOT PROVIDED: Continued use of obsolete World War II facilities that are not cost effective to maintain as well as continued operations with administrative personnel within quantity distance of operating buildings; i.e., continued operations under a safety "grandfather clause". In addition, temporary trailers will continue to be used to house overflow personnel.

12. SUPPLEMENTAL DATA:

A. Estimated Design Data:

(1) Status:

(a) Design Start Date \_\_\_\_\_

(b) Percent Complete As Of 01 January 90 (BDGT YR) \_\_\_\_\_

(c) Percent Complete As Of 01 October 90 (PROG YR) \_\_\_\_\_

(d) Design Complete Date \_\_\_\_\_

(2) Basis:

(a) Standard or Definitive Design - Yes ☐ No ☐

(b) Where Design Was Most Recently Used \_\_\_\_\_

(3) Total Cost (c) = (a)+(b) or (d)-(e): (\$000)

(a) Production of Plans and Specifications \_\_\_\_\_

(b) All Other Design Costs \_\_\_\_\_

(c) Total Cost \_\_\_\_\_

(d) Contract \_\_\_\_\_

(e) In-house \_\_\_\_\_

(4) Construction Start \_\_\_\_\_ month & year

B. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)
	None		

1. COMPONENT		FY 1991 MILITARY CONSTRUCTION PROJECT DATA			2. DATE
ARMY-PBS					JAN 91
3. INSTALLATION AND LOCATION		4. PROJECT TITLE			
Redstone Arsenal Alabama		Calibration Laboratory			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST	9. FUNDING	10. FISCAL YEAR
	000	11100	492	492	
B. COST ESTIMATES					
ITEM	SQM	QUANTITY	UNIT COST	TOTAL COST	
<b>Primary Facility</b>					
Calibration Lab	SF	5,863	84.00	492	
<b>Supporting Facilities</b>					
Electric Service	LS	-	-	9	
Water, Sewer & Gas	LS	-	-	9	
Steam, Chilled Water & Heat Distribution	LS	-	-	21	
Paving, Walks, Curbs & Gutters	LS	-	-	12	
Site Improvement	LS	-	-	10	
<b>Subtotal</b>				553	
<b>Contingency (10.00%)</b>				55	
<b>Total Contract Cost</b>				608	
<b>Supervision, Inspection &amp; Overhead (5.60%)</b>				34	
<b>Total Request</b>				642	
<b>Total Request (Rounded)</b>				640	
<b>Installed Equipment - Other Appropriations</b>				0	
11. Description of Proposed Construction					
Build a replacement Calibration Lab to house all electrical and mechanical calibration test equipment and operations					
11. REQUIREMENT: 5,863 SF ADEQUATE: None SUBSTANDARD: 3,067 SF					
PROJECT: This project will provide a new facility of approximately 5,863 square feet that contains the appropriate temperature and humidity controls necessary to perform electrical and mechanical calibration.					
REQUIREMENT: Currently electrical and mechanical calibration can not be performed efficiently or effectively due to the total lack of appropriate temperature and humidity control that is required for modern state-of-the-art test equipment. The only temperature and humidity control presently available is provided by steam heat and window air conditioners. In addition, the electrical and mechanical calibration labs are separated and housed in wooden, temporary World War II buildings that have exceeded their useful life. There is not sufficient space in these old wooden facilities to adequately support the calibration procedures required by the manufacturing process, or new state-of-the-art calibration equipment.					
CURRENT SITUATION: Currently, the electrical and mechanical calibration laboratory functions are performed in two separate, World War II buildings that only have steam heat and window air conditioners. This is not sufficient					

1. COMPONENT <b>FY 1991 MILITARY CONSTRUCTION PROJECT DATA</b>		2. DATE <b>JAN 89</b>
3. INSTALLATION AND LOCATION <b>Redstone Arsenal Alabama</b>		
4. PROJECT TITLE <b>Calibration Laboratory</b>		5. PROJECT NUMBER <b>11109</b>

**11. REQUIREMENTS (Continued)**  
**CURRENT SITUATION (Continued):**  
to meet the temperature and humidity control requirements demanded by today's state-of-the-art calibration equipment. In the existing facilities calibration activities have to be scheduled around ambient atmospheric conditions that can be controlled by the window air conditioners. If conditions vary outside control capability limits, the calibration must be postponed. In addition, the facilities have exceeded their useful life and are beyond economic repair.

**IMPACT IF NOT PROVIDED:** Calibration operations will continue to be subject to and impacted by changes in weather. This leads to an inefficient operation. Under these conditions the potential for erroneous calibration of pertinent test equipment exists which in turn could lead to extremely expensive production problems. In addition to these problems and potential problems, World War II facilities will continue to be utilized and maintained.

**12. SUPPLEMENTAL DATA:**

**A. Estimated Design Data:**

(1) Status:

(a) Design Start Date \_\_\_\_\_

(b) Percent Complete As Of 01 January 90 (BDGT YR) \_\_\_\_\_

(c) Percent Complete As Of 01 October 90 (PROG YR) \_\_\_\_\_

(d) Design Complete Date \_\_\_\_\_

(2) Basis:

(a) Standard or Definitive Design - Yes \_\_\_\_\_ No \_\_\_\_\_

(b) Where Design Was Most Recently Used \_\_\_\_\_

(3) Total Cost (c) = (a)+(b) or (d)-(e): (\$000)

(a) Production of Plans and Specifications \_\_\_\_\_

(b) All Other Design Costs \_\_\_\_\_

(c) Total Cost \_\_\_\_\_

(d) Contract \_\_\_\_\_

(e) In-house \_\_\_\_\_

(4) Construction Start \_\_\_\_\_ month & year

**B. Equipment associated with this project which will be provided from other appropriations:**

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)
	None		

1. COMPONENT		FY 1991 MILITARY CONSTRUCTION PROJECT DATA		2. DATE	
ARMY-PES				JAN 89	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE			
Indiana Army Ammunition Plant, Indiana		Roof/Ceiling Insulation			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST	9. FUND	10. FUND
	300	18533		401	401
11. COST ESTIMATES					
ITEM	QTY	QUANTITY	UNIT COST	TOTAL COST	
<b>Primary Facility</b>					
Roof/Ceiling Insulation	23	-	-	373	
Subtotal				373	
Contingency (10.00%)				37	
Total Contract Cost				410	
Supervision, Inspection & Overhead (5.50%)				23	
Total Request				433	
Total Request (Rounded)				430	
Installed Equipment - Other Appropriations				0	
12. Description of Proposed Construction					
Insulate the roof and/or ceiling areas of 23 buildings. These areas will be insulated by spraying foam insulation over the existing roof area, using batt insulation between the roof joists or blowing-in fiberglass insulation above the existing ceiling. The most appropriate insulation technique will be used for the specific building involved.					
13. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None					
PROJECT: Provide the materials and labor necessary to insulate the roof or ceiling areas of 23 buildings.					
REQUIREMENT: Implementation of this project will help meet plant goals and mandated energy reduction requirements.					
CURRENT SITUATION: Large quantities of fuel oil and electricity, acquired at great expense, are needed to meet INAAP energy requirements.					
IMPACT IF NOT PROVIDED: It is much less expensive, considering Life Cycle Costs, to implement these projects than to continue purchasing energy supplies. Implementation of this project will result in an estimated reduction in plant energy consumption of 20,364 MBTU/Yr. This represents a net 9.3% decline in energy use from FY87 levels. Failure to approve this project will result in continued consumption of unnecessarily large quantities					

1. COMPONENT	2. DATE		
FY 1991 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS	JAN 89		
3. INSTALLATION AND LOCATION			
Indiana Army Ammunition Plant, Indiana			
4. PROJECT TITLE	5. PROJECT NUMBER		
Roof Ceiling Insulation	13633		
11. REQUIREMENT (Continued): IMPACT IF NOT PROVIDED (Continued): of energy, the annual equivalent of 3,481 barrels of oil.			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date	Feb 89		
(b) Percent Complete As Of 01 January 90 (SDGT YR)	100		
(c) Percent Complete As Of 01 October 90 (PROG YR)	100		
(d) Design Complete Date	Oct 89		
(2) Basis:			
(a) Standard or Definitive Design - Yes <input type="checkbox"/> No <input type="checkbox"/>			
(b) Where Design Was Most Recently Used			
(3) Total Cost (c) = (a)+(b) or (d)+(e): (\$000)			
(a) Production of Plans and Specifications			
(b) All Other Design Costs			
(c) Total Cost			
(d) Contract			
(e) In-house			
(4) Construction Start			
	Apr 91		
	month & year		
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)
	None		

1. COMPONENT		2. DATE	
FY 1991 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS		JAN 89	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
Newport Army Ammunition Plant, Indiana		Chemical Area Energy Reduction Program	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST
	101	13100	1.500
9. COST ESTIMATES			
ITEM	QTY	QUANTITY	COST \$000
<b>Primary Facility</b>			
Building Heating Systems	LS	-	1,132
Building Modifications	LS	-	(968)
<b>Supporting Facilities</b>			
Electric Service	LS	-	124
<b>Subtotal</b>			
			1,306
Contingency (10.00%)			131
Total Contract Cost			1,437
Supervision, Inspection & Overhead (5.50%)			79
Total Request			1,516
Total Request (Rounded)			1,500
Installed Equipment - Other Appropriations			0
10. Description of Proposed Construction			
Deactivate central steam plant (Building 103) and install twenty-one (21) heating units and all necessary and related items on an individual building basis. Install an automatic night temperature setback system, roof and wall insulation, and storm windows in active buildings. Install a backup fuel source (No. 2 Heating Oil) and an emergency generator to continue heat during power outages.			
11. REQUIREMENT: 21 LS ADEQUATE: None SUBSTANDARD: 1 LS			
PROJECT: Deactivate central steam plant and install individual heating units, insulation, night setback control systems, and storm windows in central shops area active buildings. The project will include the following estimated quantities:			
Number of buildings to be modified: 15			
Infra red heating units: 4			
Modular hot water heating units: 13			
Package boilers (hot water): 4			
Fuel Tanks: 14			
Diesel Generator 250 KW: 1			
Ceiling insulation: 22,790 Sq. Ft.			
Wall insulation: 169,020 Sq. Ft.			

1. COMPONENT	2. DATE
FY 1991 MILITARY CONSTRUCTION PROJECT DATA	
ARMY-PBS	JAN 89
3. INSTALLATION AND LOCATION	
Newport Army Ammunition Plant, Indiana	
4. PROJECT TITLE	5. PROJECT NUMBER
Chemical Area Energy Reduction Program	03100
11. REQUIREMENT (Continued) PROJECT (Continued) Storm Windows: 2286 Sq. Ft. Heater Enclosures: 14 Underground gas line 1, 1 1/2, 2: 5,240 Ln. Ft. (with cathodic protection)	
<u>REQUIREMENT:</u> This project will save an estimated \$399,174 and 56,200,000 BTU per year. It will reduce energy waste and maintenance on outdated equipment.	
<u>CURRENT SITUATION:</u> Subject buildings were constructed in 1940's without energy conservation measures such as insulation and storm windows. The central steam plant was installed in the 1950's without condensate return, manual controls, and excessive makeup water requirements and an oversized poorly insulated distribution system. The central steam plant is operating at a very poor efficiency rating of 30% or less.	
<u>IMPACT IF NOT PROVIDED:</u> Continued loss of \$399,174 and 56,200,000 BTU per year in inefficient use of energy and manpower. Increased maintenance and decreased reliability of the system.	
12. SUPPLEMENTAL DATA:	
A. Estimated Design Data:	
(1) Status:	
(a) Design Start Date	Jul 89
(b) Percent Complete As Of 01 January 90 (SDGT YR)	100
(c) Percent Complete As Of 01 October 90 (PRCG YR)	100
(d) Design Complete Date	Nov 89
(2) Basis:	
(a) Standard or Definitive Design - Yes <input type="checkbox"/> No <input type="checkbox"/>	
(b) Where Design Was Most Recently Used	
(3) Total Cost (c) = (a)+(b) or (d)+(e): (\$000)	
(a) Production of Plans and Specifications	_____
(b) All Other Design Costs	_____
(c) Total Cost	_____
(d) Contract	_____
(e) In-house	_____
(4) Construction Start	Jun 91
	month & year

1. COMPONENT	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY-PBS		JAN 89
3. INSTALLATION AND LOCATION		
Newport Army Ammunition Plant Indiana		
4. PROJECT TITLE	5. PROJECT NUMBER	
Chemical Area Energy Reduction Program	18132	
10. SUPPLEMENTAL DATA (Continued)		
B. Equipment associated with this project which will be provided from other appropriations:		
<u>Equipment Nomenclature</u>	<u>Procuring Appropriation</u> None	Fiscal Year <u>Appropriated</u> <u>Or Requested</u>
		<u>Cost</u> \$6000



1. COMPONENT		2. DATE	
FY 1991 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-988		JAN 89	
3. INSTALLATION AND LOCATION			
Iowa Army Ammunition Plant, Iowa			
4. PROJECT TITLE		5. PROJECT NUMBER	
Construct Truck Docks		11078	
11. REQUIREMENTS (Continued)			
CURRENT SITUATION: (Continued)			
paths.			
IMPACT IF NOT PROVIDED: The current conditions and operations continue until we are forced to cease truck transfer operations. Rail transfer operations will continue without benefit of an enclosed dock shelter.			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date	Nov 88		
(b) Percent Complete As Of 01 January 90 (BDGT YR)	100		
(c) Percent Complete As Of 01 October 90 (PRCG YR)	100		
(d) Design Complete Date	Dec 89		
(2) Basis:			
(a) Standard or Definitive Design - Yes <input type="checkbox"/> No <input type="checkbox"/>			
(b) Where Design Was Most Recently Used _____			
(3) Total Cost (c) = (a)+(b) or (d)+(e): (\$000)			
(a) Production of Plans and Specifications _____			
(b) All Other Design Costs _____			
(c) Total Cost _____			
(d) Contract _____			
(e) In-house _____			
(4) Construction Start _____			
APR 91 month & year			
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment	Procuring	Fiscal Year	Cost
<u>Nomenclature</u>	<u>Appropriation</u>	<u>Appropriated</u>	<u>Or Requested</u>
	None		(\$000)

1. COMPONENT		2. DATE	
FY 1991 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS		JAN 89	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
Iowa Army Ammunition Plant, Iowa		Upgrade Building 100-148 HVAC	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST \$000
73011A	321	11273	240
			240
9. COST ESTIMATES			
ITEM	Q/M	QUANTITY	COST \$000
<b>Primary Facility</b>			
Upgrade HVAC	LS	-	209 (209)
Subtotal			
			209
Contingency (10.00%)			21
Total Contract Cost			230
Supervision, Inspection & Overhead (5.50%)			13
Total Request			243
Total Request (Rounded)			240
Installed Equipment - Other Appropriations			(0)
10. Description of Proposed Construction This project consists of insulating the steamlines and installing a pneumatic steam control system for each unit heater.			
11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None			
PROJECT: Provide a thermal control valve system for night and weekend temperature setback for each wing of the building, plus automatic shutdown of the heating system when outside temperature is above 65 degrees F. Improve ventilation, install destratification devices in the sheet metal and carpenter shops, lunchroom and hi-line crew areas, and silencers on existing recirculation fans.			
CURRENT SITUATION: The existing building heating system consists of unit heater heaters controlled by electric thermostats that shut off only the fan and not the steam supply. Steam continues to flow to the heater coils and associated piping - allowing continuous radiation, convection and steam trap losses. In addition, the 5 PSI Steamlines supplying the unit heaters are not insulated.			
IMPACT IF NOT PROVIDED: The wasteful and inefficient heating system will have to continue to be operated as now exists.			

1. COMPONENT	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY-PES		JAN 89
3. INSTALLATION AND LOCATION		
Iowa Army Ammunition Plant, Iowa		
4. PROJECT TITLE	5. PROJECT NUMBER	
Upgrade Building 100-143 HVAC	11179	
10. SUPPLEMENTAL DATA		
A. Estimated Design Data:		
(1) Status:		
(a) Design Start Date		Nov 88
(b) Percent Complete As Of 01 January 90 (BDGT YR)		100
(c) Percent Complete As Of 01 October 90 (PROG YR)		100
(d) Design Complete Date		Dec 89
(2) Basis:		
(a) Standard or Definitive Design - Yes	No	
(b) Where Design Was Most Recently Used		
(3) Total Cost (c) = (a)-(b) or (d)-(e):		
(a) Production of Plans and Specifications		\$0000
(b) All Other Design Costs		_____
(c) Total Cost		_____
(d) Contract		_____
(e) In-house		_____
(4) Construction Start		
		Apr 91
		month & year
B. Equipment associated with this project which will be provided from other appropriations:		
Equipment	Procuring	Fiscal Year
<u>Nomenclature</u>	<u>Appropriation</u>	<u>Appropriated</u>
	None	<u>Cost</u>
		\$0000

1. COMPONENT		2. DATE	
FY 1991 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS		FAN 89	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
Louisiana Army Ammunition Plant, Louisiana Surface Roads Area L-1			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$)
351		6289	
9. COST ESTIMATES			
ITEM	U/M	QUANTITY	COST \$000
<b>Primary Facility</b>			
ROADS PAVED	SY	36,373	9 58 (348)
Subtotal			
			348
Contingency (10.00%)			35
Total Contract Cost			383
Supervision, Inspection & Overhead (5.50%)			21
Total Request			404
Total Request (Rounded)			400
Installed Equipment - Other Appropriations			0
10. Description of Proposed Construction			
PROVIDE ALL WEATHER SURFACE ON EXISTING ROADBEDS. STABILIZE BASE FOR SURFACING AND PROVIDE NEW ACCESS ROADS. Phase I of this project is to install approximately 3.1 miles of hard surfacing on rough gravel roads in Area L-3. Scarify road bed, shape, and clean ditches. Remove any soft spots, replace in 6" lifts of sand, clay, and gravel; then compact. After all patch work is accomplished, 6" of sand, clay, and gravel shall be hauled, spread, and compacted to 95% density based on modified proctor. After base material is compacted and all test passed, base shall be surfaced with 2" bituminous mixture for hot application (hot mix). After surfacing is accomplished, shoulder material of sand, clay, and gravel shall be hauled, spread, and compacted. When completed, shoulders shall be 3' wide each side of the road.			
11. REQUIREMENT: None ADEQUATE: 648,416 SY SUBSTANDARD: 72,746 SY PROJECT: This project will implement Phase I of providing a hard surface on approximately 3.1 miles of rough gravel roads. Road beds will be scarified, shaped, have soft spots removed, and then will be over-layed with a bituminous hot mix. REQUIREMENT: Gravel roads were established in 1942. These roads require constant maintenance because of pot holes, soft spots, ruts, etc. Because			

1. COMPONENT		2. DATE	
ARMY-PBS		FY 1991 MILITARY CONSTRUCTION PROJECT DATA	
3. INSTALLATION AND LOCATION		JAN 89	
Louisiana Army Ammunition Plant, Louisiana			
4. PROJECT TITLE		5. PROJECT NUMBER	
Surface Roads Area 1-3		4234	
11. REQUIREMENT (Continued)			
REQUIREMENT (Continued)			
these roads are used primarily by vehicles hauling explosives, a safety problem exist. Because of the dust, pot holes, etc., extra maintenance is required for these vehicles hauling explosives.			
CURRENT SITUATION: Gravel roads are used by vehicles hauling explosives. These roads are constantly being graded and maintained to keep a smooth surface. Explosive hauling vehicles are maintained frequently to assure safe hauling of explosives.			
IMPACT IF NOT PROVIDED: EXCESSIVE ROAD MAINTENANCE AND VEHICLE MAINTENANCE COSTS WILL CONTINUE. Vehicles hauling bulk explosives and finished ammunition items will continue to travel over rough gravel roads where the potential for an accident is greater than on asphalt. Cost of maintenance of the roads and vehicles will be higher for the gravel roads than would be expected on asphalt surfaced roads.			
ADDITIONAL: An economic analysis Format B has been submitted.			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a)	Design Start Date	Aug 88	
(b)	Percent Complete As Of 01 January 90 (BDGT YR)	100	
(c)	Percent Complete As Of 01 October 90 (PROG YR)	100	
(d)	Design Complete Date	Dec 89	
(2) Basis:			
(a)	Standard or Definitive Design - Yes	No	
(b)	Where Design Was Most Recently Used		
(3) Total Cost (c) = (a)+(b) or (d)+(e): (\$000)			
(a)	Production of Plans and Specifications		
(b)	All Other Design Costs		
(c)	Total Cost		
(d)	Contract		
(e)	In-house		
(4) Construction Start Apr 91			
month & year			
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment	Procuring	Fiscal Year	Cost
Nomenclature	Appropriation	Appropriated	
	None	Or Requested	(\$000)

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1. COMPONENT	2. DATE
ARMY-PBS	JAN 89
3. INSTALLATION AND LOCATION	
Lake Army Ammunition Plant, Missouri	
4. PROJECT TITLE	5. PROJECT NUMBER
Rehabilitate Lightning Protection	27714
<p>11. REQUIREMENT (Continued)</p> <p><u>REQUIREMENT:</u> (Continued)</p> <p>protection systems on plant is inadequate by current accepted standards as outlined in AMC-R 385-100. Also most of the systems exceed the 25 year economic life and suffer from deterioration.</p> <p><u>CURRENT SITUATION:</u> Approximately 1,100 additional manhours annually are needed to maintain the obsolete systems such as replacement of ground rods to achieve adequate conductivity. However, major rehabilitation is required to achieve compliance with AMC-R 385-100. Waiver LC-E-2-71 is still in effect and covers lightning protection deficiencies relative to AMC-R 385-100.</p> <p><u>IMPACT IF NOT PROVIDED:</u> If this project is not provided, LCAAP will continue to operate outside the requirements of AMC-R 385-100 for lightning protection. The destruction of three (3) propellant storage facilities has been attributed to lightning since 1978. Without improvement, it is assumed that the safety of both personnel and property will be compromised, and that additional losses due to lightning can be expected.</p> <p><u>ADDITIONAL:</u> A 10 percent contingency factor is currently being used in accordance with project preparation guidance since this project consists primarily of rehabilitation work.</p> <p>Justification for this project is not based on economics, but rather on the need to comply with safety regulations. However, some economic improvements in the form of reduced maintenance costs will be realized by implementation of this project.</p> <p>This is not a Specific Mobilization Requirement as the lightning protection project is safety related and will have no direct effect on production capacity.</p> <p>This project is currently programmed as 5912700-31.</p> <p>Estimated costs are in FY91 inflated 5000.</p> <p>RLB:kah</p> <p>Form No. 27714</p>	
12. SUPPLEMENTAL DATA:	
A. Estimated Design Data:	
(1) Status:	
(a) Design Start Date	Jul 88
(b) Percent Complete As Of 01 January 90 (BDGT YR)	100
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	Nov 89
(2) Basis:	
(a) Standard or Definitive Design - Yes	No
(b) Where Design Was Most Recently Used	
(3) Total Cost (c) = (a)+(b) or (d)+(e): (\$000)	
(a) Production of Plans and Specifications	

1. COMPONENT		2. DATE	
FY 1991 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PES		JAN 89	
3. INSTALLATION AND LOCATION			
Lake City Army Ammunition Plant, Missouri			
4. PROJECT TITLE		5. PROJECT NUMBER	
Rehabilitate Lightning Protection		17704	
6. SUPPLEMENTAL DATA: (Continued)			
A. Estimated Design Data: (Continued)			
(3) Total Cost: (Continued)		(\$5000)	
(b) All Other Design Costs .....		_____	
(c) Total Cost .....		_____	
(d) Contract .....		_____	
(e) In-house .....		_____	
(4) Construction Start .....		Mar 91	
		month & year	
B. Equipment associated with this project which will be provided from other appropriations:			
<u>Equipment</u>	<u>Procuring</u>	<u>Fiscal Year</u>	<u>Cost</u>
<u>Nomenclature</u>	<u>Appropriation</u>	<u>Appropriated</u>	<u>Or Requested</u>
	None		(\$5000)

1. COMPONENT		2. DATE	
ARMY-PBS		JAN 89	
FY 1991 MILITARY CONSTRUCTION PROJECT DATA			
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
Lake View Army Ammunition Plant, Mississippi Construction Storage Facility			
5. PROGRAM ELEMENT	6. FISCAL YEAR	7. PROJECT NUMBER	8. PROJECT COST
111	1995	100000	171
9. COST ESTIMATES			
ITEM	U/M	QUANTITY	COST
Primary Facility			
Storage Building	SF	11,200	13.17
Supporting Facilities			
Electric Service	LS	-	-
Steam, Chilled Water & Heat Distribution	LS	-	-
Site Improvement	LS	-	-
Other	LS	-	-
Subtotal			493
Contingency (10.00%)			49
Total Contract Cost			542
Supervision, Inspection & Overhead (5.50%)			30
Total Request			572
Total Request (Rounded)			570
Installed Equipment - Other Appropriations			(2)
10. Description of Proposed Construction			
Construct a new 11,200 square foot warehouse for the storage of flammable liquids and corrosive liquids. The two products would be separated by a fire resistant wall. The new warehouse would have a foam fire protection sprinkler system and adequate containment in case of a spill of the flammable or corrosive liquids. The location of the facility would be east of Building 121G. The warehouse would also have heat, a restroom facility, lighting, safety shower, truck docks, access roads, outside security lighting, security fencing, lightning protection, railroad spur, and telephone service.			
11. REQUIREMENT: 544,841 SF ADEQUATE: 533,641 SF SUBSTANDARD: None			
PROJECT: This subproject will provide separate storage facilities for flammable liquids and corrosive liquids in the Warehouse Building 121 Series area of LCAAP.			
REQUIREMENT: This project will correct safety and fire protection deficiencies caused by storing flammable liquids next to corrosive liquids in a warehouse.			
CURRENT SITUATION: The flammable liquids and corrosive liquids are currently being stored next to each other and in the same warehouse as combustible items.			

1. COMPONENT	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	DATE
	ARMY-PSR	JAN 89
2. INSTALLATION AND LOCATION		
Lake Army Ammunition Plant, Missouri		
4. PROJECT TITLE		PROJECT NUMBER
Construct Storage Facility		13957
<p>11. REQUIREMENT. Continued:</p> <p><u>IMPACT IF NOT PROVIDED:</u> The flammable liquids and corrosive liquids will continue to be stored next to each other and in the same warehouse with combustible items.</p> <p><u>ADDITIONAL:</u> This project is currently programmed in PSR Project 5915332 as SP/LI 10-4.</p> <p>Specific Mobilization Requirement: This project is needed to satisfy FYDP production requirements and is needed to insure adequate chemical storage facilities to meet mobilization production schedules.</p> <p>KLC:kan Form No.: 28957</p>		
12. SUPPLEMENTAL DATA:		
A. Estimated Design Data:		
(1) Status:		
(a) Design Start Date	Dec 88	
(b) Percent Complete As Of 01 January 90 (BDGT YR)	100	
(c) Percent Complete As Of 01 October 90 (PROG YR)	100	
(d) Design Complete Date	Oct 89	
(2) Basis:		
(a) Standard or Definitive Design - Yes <input type="checkbox"/> No <input type="checkbox"/>		
(b) Where Design Was Most Recently Used		
(3) Total Cost (c) = (a)-(b) or (d)-(e): \$5000		
(a) Production of Plans and Specifications		
(b) All Other Design Costs		
(c) Total Cost		
(d) Contract		
(e) In-house		
(4) Construction Start Apr 91		
month & year		
B. Equipment associated with this project which will be provided from other appropriations:		
Equipment Nomenclature	Procuring Appropriation None	Fiscal Year Appropriated Or Requested
		Cost (5000)

1. COMPONENT		2. DATE	
ARMY-PBS		JAN 89	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
Holston Army Ammunition Plant, Tennessee		Replace Magazine Bridge	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST
7001A	025	4000	4,450
9. COST ESTIMATES			
ITEM	QTY	QUANTITY	UNIT COST
Primary Facility			4,042
Construct Bridge	LS	-	(4,042)
Subtotal			4,042
Contingency (5.00%)			202
Total Contract Cost			4,244
Supervision, Inspection & Overhead (5.50%)			233
Total Request			4,477
Total Request (Rounded)			4,500
Installed Equipment - Other Appropriations			320
10. Description of Proposed Construction			
Replace existing bridge over Holston River to X-Magazine Explosives Storage Area.			
11. REQUIREMENT: 1 ea ADEQUATE: None SUBSTANDARD: 1 ea PROJECT:			
FOCUS a. 2-lane road bridge, HS20 capacity, 24 ft wide x 1500 ft long.			
a. 2-lane road bridge, HS20 capacity, 24 ft wide x 1500 ft long.			
b. Approx. 400 ft 2-lane asphalt concrete approach road on each side of river.			
c. Sentry (guard) building, 8 ft wide x 10 ft long x 8 ft high near south end of bridge.			
d. A break-rest building, 12 ft wide x 20 ft long x 8 ft high with male and female sanitary facilities, electricity, and heat.			
e. 24 ft double swing gate at each end of bridge.			
REQUIREMENT: The existing bridge was built in the early 40's and is in a continual state of deterioration. The bridge's load rating has been reduced to H-8.4 from the original H-15 and cannot support a full trucktractor-trailer load of explosives (33.3 tons). This effects shipping and handling of products and results in a potential for a serious incident. This is an IPP deferred deficiency item.			

1. COMPONENT	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY-PBS		JAN 89
3. INSTALLATION AND LOCATION		
Holston Army Ammunition Plant, Tennessee		
4. PROJECT TITLE	5. PROJECT NUMBER	
Replace Magazine Bridge	1102	
<p><u>11. REQUIREMENT</u> (Continued)</p> <p><u>CURRENT SITUATION:</u> A study states that "the structure is in a continual deterioration and additional repair will be required regularly." The serviceable life of the pressure-treated timbers was 30 years. The bridge was built in the early 40's. Shipments must be loaded for the current bridge rating and not for highway gross weight allowable limits.</p> <p><u>IMPACT IF NOT PROVIDED:</u> The bridge will continue capacity downgrading to a point that it will be unsafe for any traffic. A second safety concern is the potential of human error which could result in a vehicle on the bridge that exceeds the bridge capacity resulting in loss of property and potential loss of life.</p> <p><u>ADDITIONAL:</u> This is an M+O requirement needed at M-day. The deferred deficiency Form 313-R has been submitted.</p> <p>The deferred deficiency Form 313-R has been submitted, however, an AMCCOM Project Identification Code has not been assigned. Therefore, a code number is not available for inclusion with this DD1391.</p>		
<u>12. SUPPLEMENTAL DATA:</u>		
A. Estimated Design Data:		
(1) Status:		
(a) Design Start Date	OCT 87	
(b) Percent Complete As Of 01 January 90 (BDGT YR)	100	
(c) Percent Complete As Of 01 October 90 (PROG YR)	100	
(d) Design Complete Date	OCT 89	
(2) Basis:		
(a) Standard or Definitive Design - Yes <u>X</u> No <u>  </u>		
(b) Where Design Was Most Recently Used	UNK	
(3) Total Cost (c) = (a)+(b) or (d)-(e): (\$000)		
(a) Production of Plans and Specifications	300	
(b) All Other Design Costs	300	
(c) Total Cost	300	
(d) Contract	250	
(e) In-house	50	
(4) Construction Start	Mar 91	
	month & year	
B. Equipment associated with this project which will be provided from other appropriations:		
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested
	None	Cost (\$000)

1. COMPONENT		FY 1991 MILITARY CONSTRUCTION PROJECT DATA		2. DATE	
ARMY-PBS				JAN 89	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE			
Houston Army Ammunition Plant, Tennessee		Modernize Steam Headers			
5. PROGRAM ELEMENT	6. INTERCOM 1000	7. PROJECT NUMBER	8. PROJECT COST	9. COST	10. COST
	006	10507		1,863	1,863
11. COST ESTIMATES					
ITEM	U/M	QUANTITY	UNIT COST	COST \$100	
<b>Primary Facility</b>					
Equipment Rehab	LS	-	-	(1,863)	
Subtotal				1,863	
Contingency (5.00%)				93	
Total Contract Cost				1,956	
Supervision, Inspection & Overhead (5.50%)				108	
Total Request				2,064	
Total Request (Rounded)				2,050	
Installed Equipment - Other Appropriations				(128)	
12. Description of Proposed Construction      The following is a break down of the work for the steam headers on production Lines 9 thru 10. The Corps of Engineer portion is indicated by 'CE'.					
1. (CE) Perform testing of the 8 and 10 inch sections of the steam headers (upper line and lower line) by an independent agency to determine suitability for reuse.					
2. (CE) Replace sections or all of the headers as required as a result of the testing.					
3. Replace supports, traps and valves as necessary due to deterioration.					
(CE)					
4. Insulate the headers after replacement of lines, supports, traps and valves.					
5. Demolish/rehabilitate the collateral air lines.					
11. REQUIREMENT: None ADEQUATE: None SUBSTANDARD: None					
PROJECT: The purpose of this project is to rehabilitate the 8 and 10 inch east-west steam header facilities in Lines 9 and 10 and the 3 inch north-south steam header on Lines 9 and 10 to assure operability in the event of mobilization or high production requirements. Also, minor air line demolition/rehabilitation has been added to the scope of work.					

1. COMPONENT	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ARMY-PBB		JAN 88
3. INSTALLATION AND LOCATION		
Holston Army Ammunition Plant, Tennessee		
4. PROJECT TITLE		
Modernize Steam Headers		
10507		
5. REQUIREMENT Continued		
<p><b>REQUIREMENT:</b> Replace/rehabilitate the existing deteriorated 3 and 10 inch east-west and north-south steam headers serving Lines 9 and 10. Replace supports, traps and valves as required. Insulate the steam headers after the corrections to the deteriorated headers have been completed.</p> <p>Modernization of the steam headers is essential to provide capability to operate Lines 9 and 10 for proveout and full production. These production lines are scheduled for modernization under projects 5873000A and 5913000B. The ability to meet mobilization and modernization requirements will not be attainable without this effort.</p> <p><b>CURRENT SITUATION:</b> The 10 inch east-west main steam header serving the upper portion of Lines 9 and 10 and the 3 inch north-south header serving the lower portion of these lines will be required for prove-out and future operation of the modernized Lines 9 and 10. Portions of the lines have deteriorated and require rehabilitation or replacement. In addition, steam line supports, traps and valves will require replacement.</p> <p><b>IMPACT IF NOT PROVIDED:</b> The capability of Lines 9 and 10 to meet modernization and mobilization production requirements will not be realized. Prove-out of the facilities cannot be completed. The industrial readiness posture of the facilities will not be improved. As is, the steam headers are unsafe and could result in injury to personnel, equipment, and facilities.</p> <p><b>ADDITIONAL:</b> This is a Group I Mobilization project. The project will not have a significant impact on the environment. An Environmental Assessment will be prepared and submitted at a later date. The safety site plan will be submitted if required, however, no change to the existing line placement is anticipated. A list and description of steam lines to be modernized will be submitted in lieu of a PDB in accordance with guidance from the Modernization Agency. A Pre-Budget P-15 will be submitted.</p>		
12. SUPPLEMENTAL DATA:		
A. Estimated Design Data:		
(1) Status:		
(a) Design Start Date	FEB 87	
(b) Percent Complete As Of 01 January 90 (BDGT YR)	100	
(c) Percent Complete As Of 01 October 90 (PROG YR)	100	
(d) Design Complete Date	DEC 87	
(2) Basis:		
(a) Standard or Definitive Design - Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
(b) Where Design Was Most Recently Used	HOLSTON AAP	
(3) Total Cost (c) = (a)-(b) or (d)-(e) (\$000)		
(a) Production of Plans and Specifications		

1. COMPONENT		2. DATE	
FY 1991 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBG.		JAN 89	
3. INSTALLATION AND LOCATION			
4. PROJECT TITLE			
5. PROJECT CLASS			
6. PROJECT HEADERS		7. PROJECT	
8. PROJECT		9. PROJECT	
10. SUPPLEMENTAL DATA (Continued)			
A. Estimated Design Data. (Continued)			
(1) Total Cost: (Continued)			
(b) All Other Design Costs			105
(c) Total Cost			105
(d) Contract			52
(e) In-house			53
(4) Construction Start			APR 91
month & year			
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost \$000
None			



FY 1991 MILITARY CONSTRUCTION PROJECT DATA		DATE
COMPONENT ARMY-985		JAN 89
INSTALLATION AND LOCATION HALLAM ARMY AMMUNITION PLANT, TENNESSEE		
PROJECT TITLE METROLOGY LABORATORY		PROJECT NUMBER 13169
<p>11. REQUIREMENT (Continued)</p> <p>REQUIREMENT (Continued)</p> <p>AVAILABLE TO ADD NEEDED EQUIPMENT THAT WILL INCREASE THE ACCURACY, EFFICIENCY AND VERSATILITY OF THE METROLOGY SECTION.</p> <p>CURRENT SITUATION: CURRENTLY THE METROLOGY LABORATORY IS HOUSED IN A FACILITY THAT IS TOO SMALL TO PROVIDE THE REQUIRED WORK AND STORAGE SPACE FOR PRESENT AND FUTURE NEEDS. NEW AND MORE SENSITIVE EQUIPMENT IS NEEDED TO MEET THE EVER INCREASING REQUIREMENT FOR A MORE EFFICIENT QUALITY ASSURANCE PROGRAM. BECAUSE OF THE SPACE LIMITATION THE LAB IS ONLY ABLE TO MEET THE MINIMUM ESSENTIAL METROLOGY ENVIRONMENTAL STANDARDS.</p> <p>IMPACT IF NOT PROVIDED: FAILURE TO APPROVE THIS PROJECT WILL RESULT IN THE CONTINUED USE OF A FACILITY THAT SERIOUSLY LIMITS THE CAPABILITIES OF THE METROLOGY LABORATORY.</p>		
12. SUPPLEMENTAL DATA:		
A. Estimated Design Data:		
(1) Status:		
(a) Design Start Date	.....	Feb 88
(b) Percent Complete As Of 01 January 90 (BDGT YR)	.....	100
(c) Percent Complete As Of 01 October 90 (PROG YR)	.....	100
(d) Design Complete Date	.....	May 89
(2) Basis:		
(a) Standard or Definitive Design - Yes	_____ No _____	
(b) Where Design Was Most Recently Used	_____	
(3) Total Cost (c) = (a)-(b) or (d)-(e) (\$000)		
(a) Production of Plans and Specifications	.....	
(b) All Other Design Costs	.....	
(c) Total Cost	.....	
(d) Contract	.....	
(e) In-house	.....	
(4) Construction Start ..... Mar 91		
month & year		
B. Equipment associated with this project which will be provided from other appropriations:		
Equipment Nomenclature	Procuring Appropriation None	Fiscal Year Appropriated Or Requested
		Cost (\$000)

1. COMPONENT		FY 1991 MILITARY CONSTRUCTION PROJECT DATA		2. DATE	
ARMY-PBS				FORM 88	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE			
Fort Bliss Army Ammunition Plant, Texas		Pyrotechnic Production			
5. PROGRAM ELEMENT	6. INTERAGENCY CODE	7. PROJECT NUMBER	8. PROJECT FISCAL YEAR		
100		1P431	1991		
9. COST ESTIMATES					
ITEM	U/M	QUANTITY	UNIT COST	TOTAL COST	
<b>Primary Facilities</b>					
MIGRAD PYRO FACILITY	SF	10,328	219.74	2,269,112	
EARTH BARRICADE	CY	1,429	9.22	13,195	
NEW RAMP	LF	315	150.36	47,363	
100% MAKE-UP HVAC W/CONTROLS	SF	3,256	99.78	324,713	
INTERIOR FIRE WATER SUPPLY	LS	-	-	13	
See Cost Estimates (Continued)				387	
<b>Supporting Facilities</b>					
Electric Service	LS	-	-	168	
Water, Sewer & Gas	LS	-	-	15	
Steam, Chilled Water & Heat Distribution	LS	-	-	102	
Paving, Walks, Curbs & Gutters	LS	-	-	5	
Storm Drainage	LS	-	-	1	
Site Improvement	LS	-	-	26	
Information Systems	LS	-	-	2	
Other	LS	-	-	101	
<b>Subtotal</b>				3,979	
<b>Contingency (5.00%)</b>				199	
<b>Total Contract Cost</b>				4,178	
<b>Supervision, Inspection &amp; Overhead (5.50%)</b>				230	
<b>Total Request</b>				4,408	
<b>Total Request (Rounded)</b>				4,400	
<b>Installed Equipment - Other Appropriations</b>				0	
10. Description of Proposed Construction					
Construct a building for pyrotechnic production, sized to house technologically advanced pyrotechnic mixing, granulating, and drying (MIGRAD) and support systems. Functional requirements include 1) interim storage of pyrotechnic raw materials, 2) pre-formulation preparation of raw materials, 3) weighing of raw materials, 4) processing of pyrotechnic materials (MIGRAD process), 5) screening and remote material handling of pyrotechnic mixture, 6) inert storage capability, 7) interim storage of pyrotechnic mixtures, 8) maintenance activity, 9) office facilities, and 10) restroom facilities.					
The building will be integrated into an existing production line. Site work will include demolition of an existing black powder storage magazine and improvements to an existing Class F road. Parking areas, a service/access road to the rear of the MIGRAD facility, and interconnecting ramps between the MIGRAD building and other buildings shall be constructed. An earthen barricade shall be constructed to reduce intra-line separation between existing buildings and the MIGRAD facility.					
The building will be constructed with reinforced concrete slab on grade with conductive topping. Substantial dividing walls shall be constructed around rooms which process Class 1.1 pyrotechnic material. Walls separating					

FY 1991 MILITARY CONSTRUCTION PROJECT DATA		DATE	
ARMY-283		FORM 32	
1. INSTALLATION AND LOCATION			
2045 1015 ARMY AMMUNITION PLANT, TEXAS			
2. PROJECT TITLE		3. PROJECT NUMBER	
Pyrotechnic Production		19611	
4. Cost Estimates (Continued)			
Item	W/M	Quantity	Unit Cost \$000
<u>Primary Facility (Continued)</u>			
INTERIOR IND./POTABLE WATER DIST	LS	-	-
SANITARY SEWER W/FLOOR DRAIN	LS	-	-
HAZARDOUS WASTE COLL./TREATMENT	LS	-	377
Total			387
10. DESCRIPTION OF PROPOSED CONSTRUCTION: (Continued)			
rooms where fuels, oxidizers, and flammable materials are stored/processed shall be of fire resistant construction.			
Fire protection systems shall be included. A sprinkler system shall be installed for general building protection with a Halon system provided for the control room. Fire water supply shall be provided for user installed high speed deluge system (for equipment and personnel protection)			
Utility construction will include installation of primary electrical service, compressed air and steam distribution from existing headers, potable water and fire water supply from existing mains, and construction of a new sanitary sewer from the MIGRAD facility to the existing sanitary sewer.			
Waste water collection troughs in each of the remote processing bays will collect bay washdown contaminated water. Troughs to be connected to stainless steel collection/pre-treatment tanks located outside the building. A pump and piping system will be installed to allow pumping of waste water to the existing waste water treatment plant.			
A HVAC system with temperature and humidity control shall be installed for all areas in the building where pyrotechnic materials are stored and processed. 100% makeup air is required. Self-contained A/C units shall be provided for areas such as offices and control room. The heating source will be the existing Plant Steam System. Exhaust vents are required for rooms in which pyrotechnic material is stored or processed. Ventilation is also required for the Mechanical Room and the Restrooms.			
11. REQUIREMENT: 10,328 SF ADEQUATE: None SUBSTANDARD: None			
PROJECT: This project will enhance personnel safety by providing facilities to house technologically advanced pyrotechnic mixing, granulating, and drying (MIGRAD) equipment.			
REQUIREMENT: Additional facilities are required in order to house the MIGRAD equipment. There are no existing facilities available at the site which can be utilized. Existing pyrotechnic buildings cannot be used for two (2) primary reasons: 1) Existing buildings house mix-muller processing equipment which must be retained for the manufacture of those pyromixtures which cannot be manufactured in the MIGRAD. 2) Use of existing buildings for the MIGRAD operations would violate current safety regulations for Class 1.1 explosives.			
CURRENT SITUATION: Using current methods, the production of a typical 30 pound batch quantity of pyrotechnic mixture require that the operator be			

1. COMPONENT		DATE	
FY 1991 MILITARY CONSTRUCTION PROJECT DATA		JAN 89	
ARMY-PBS			
2. INSTALLATION AND LOCATION			
Lone Star Army Ammunition Plant, Texas			
4. PROJECT TITLE		5. PROJECT NUMBER	
Pyrotechnic Production		19681	
11. REQUIREMENT (Continued)			
CURRENT SITUATION (Continued)			
exposed to hazardous material approximately sixty (60) times per batch. By way of contrast, the MIGRAD process coupled with remote material handling capability require the operator to be exposed to the pyrotechnic material only one (1) time per batch.			
IMPACT IF NOT PROVIDED: If this project is not approved, the MIGRAD Systems cannot be implemented and operator exposure to hazardous pyrotechnic materials cannot be reduced.			
ADDITIONAL: All appropriate measures will be taken to ensure that the health of the worker is protected within all Federal and State laws and regulations. This project has been reviewed for historic impact and complies with the intent of PL 89-665 and Executive Order 11593. This project has been reviewed and it has been determined that an Environmental Impact Statement pursuant to PL 91-190 is not required.			
12. SUPPLEMENTAL DATA:			
A. Estimated Design Data:			
(1) Status:			
(a) Design Start Date	Jul 88		
(b) Percent Complete As Of 01 January 90 (SDGT YR)	100		
(c) Percent Complete As Of 01 October 90 (PROG YR)	100		
(d) Design Complete Date	Nov 89		
(2) Basis:			
(a) Standard or Definitive Design - Yes <input type="checkbox"/> No <input type="checkbox"/>			
(b) Where Design Was Most Recently Used			
(3) Total Cost (c) = (a)+(b) or (d)+(e): (\$000)			
(a) Production of Plans and Specifications	_____		
(b) All Other Design Costs	_____		
(c) Total Cost	_____		
(d) Contract	_____		
(e) In-house	_____		
(4) Construction Start			
			Apr 91
			month & year
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment	Procuring	Fiscal Year	Cost
<u>Nomenclature</u>	<u>Appropriation</u>	<u>Appropriated</u>	<u>Or Requested</u>
	None		(\$000)

1. COMPONENT		2. DATE	
ARMY-PBS		JAN 89	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
FORTROCK ARMY AMMUNITION PLANT Texas		Construct Fire Station	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST
		16686	
9. COST ESTIMATES			
ITEM	QTY	QUANTITY	COST \$000
<b>Primary Facility</b>			
CONSTRUCT FIRE STATION	SF	6,688	51.91 (347)
<b>Supporting Facilities</b>			
SUPPORT FACILITIES	LS	-	- (207)
Subtotal			554
Contingency (10.00%)			55
Total Contract Cost			609
Supervision, Inspection & Overhead (5.50%)			34
Total Request			643
Total Request (Rounded)			640
Installed Equipment - Other Appropriations			(0)
10. Description of Proposed Construction Construct new fire station in accordance with U.S. Army Corps of Engineers standards. The design will be based on a modified standard floor plan. The floor plan will have space for a "two company headquarters" apparatus room but only "one company headquarters" administrative and dormitory space.			
11. REQUIREMENT: 6,688 SF ADEQUATE: None SUBSTANDARD: 5,831 SF			
PROJECT: A safe, economical, and functional fire station is required which complies with the Department of Army standards.			
REQUIREMENT: The existing fire station, building 709A, was constructed in 1942 with major modifications performed in the mid 1950's to provide additional space for personnel and equipment. Since then improvements have been minimal. A new facility is required to meet Department of Army standards.			
CURRENT SITUATION: See Requirement paragraph above.			
IMPACT IF NOT PROVIDED: If this project is not approved, the current facility will continue to deteriorate, resulting in costly maintenance and operating costs. Fire fighters and emergency personnel will continue to use substandard facilities.			



1. COMPONENT		2. DATE	
FY 1991 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS		JAN 89	
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
Longhorn Army Ammunition Plant, Texas		Pyrotechnic Safety Enhancement	
5. PRINCIPAL ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)
	126	1346-	1,250
9. COST ESTIMATES			
ITEM	Q/M	QUANTITY	COST (\$000)
<b>Primary Facility</b>			
MIGRAD Mixer Facility	SF	4,400	190.00 (336)
<b>Supporting Facilities</b>			
Electric Service	LS	-	(5)
Water, Sewer & Gas	LS	-	(61)
Steam, Chilled Water & Heat Distribution	LS	-	(125)
Paving, Walks, Curbs & Gutters	LS	-	(35)
Information Systems	LS	-	(4)
Subtotal			1,118
Contingency (5.00%)			56
Total Contract Cost			1,174
Supervision, Inspection & Overhead (5.50%)			65
Total Request			1,239
Total Request (Rounded)			1,250
Installed Equipment - Other Appropriations			(0)
<p>10. Description of Proposed Construction      This project is to construct a MIGRAD (Mixer, GRANulator, Dryer) mixing facility. The facility will house new technology mixers which are being developed/evaluated by Pine Bluff Arsenal per MMT Project 582/31709. Use of the MIGRAD mixer will eliminate hazardous traying, drying, and granulating operations. There are no suitable existing facilities at Longhorn AAP to house these mixers. The MIGRAD mixers require more head room than is provided in existing facilities. Alteration of existing facilities has been disallowed since new construction to raise the roof would not be in compliance with AMC-R 385-100 dated 1 August 1985 requirements.</p> <p>The operations area of the new mix facility will have two mixer bays, four raw material surge bays, two finished mix surge bays, passageways, an inert cart and blender bucket conditioning area and a loading dock. The operations area of the facility is approximately 4400 sq ft. Wall design of the mixer and surge bays is to be in accordance with TM 5-1300. Requirements and arrangement of restroom facilities, equipment rooms, fire protection deluge valve room, etc is to be determined by the Design Agency. The facility is located within an existing pyrotechnic production facility. Connection to existing utility systems and provision of access roads and equipment pads for installation of AMC equipment is included in this project.</p>			

1. COMPONENT	FY 1991 MILITARY CONSTRUCTION PROJECT DATA
ARMY-PBS	DATE
2. INSTALLATION AND LOCATION	
3. PROJECT TITLE	
4. PROJECT NUMBER	
5. PROJECT DESCRIPTION	
<p>10. DESCRIPTION OF PROPOSED CONSTRUCTION: (Continued)</p> <p>Temperature and humidity conditioning is to be provided in the mixer and surge bays and heating and cooling are to be provided in other operational areas for comfort conditioning. Conditioning of mix and surge areas for a relative humidity of 50-55% at 58 to 78 degrees F is required to reduce processing hazards.</p> <p>A waste collection trench and sump are to be furnished to collect washdown products and contain any potential spill. Restroom facilities for male and female operators will be needed. Connection to existing electrical, steam, compressed air, telephone, potable water, fire water and sewer lines will be required. These utilities are in near proximity to the proposed facility.</p> <p>Equipment pads and access roads are needed for installation and maintenance of AMC process support equipment. Two pads with access roads are needed. The pads should be 30 ft by 40 ft. They should be of concrete or other suitable material to provide all weather access.</p> <p>11. REQUIREMENT: 4,400 SF ADEQUATE: None SUBSTANDARD: None</p> <p>PROJECT: Safety needs to be improved by reducing personnel exposure to hazardous operations and materials. This can be accomplished by use of the new technology MIGRAD mixers to eliminate certain manual traying, drying, and granulation processes.</p> <p>REQUIREMENT: This project is needed to provide processing improvements which will enhance safety. Numerous flashes have occurred at this, and other, pyrotechnics producing plants. These flashes have resulted in injuries, fatalities, equipment and facility damage, lost production time and increased item cost.</p> <p>CURRENT SITUATION: Pyrotechnic compositions are being produced using processes and equipment which are of World War II vintage. These processes often require mixing and multiple drying and granulating steps. These operations require excessive operator exposure to energetic and unpredictable materials.</p> <p>IMPACT IF NOT PROVIDED: Employee exposure to hazardous materials and operations would remain at the current high levels. The benefits to be derived from the pacing MM&amp;T development work would not be implemented.</p> <p>ADDITIONAL: A Format 3 economic analysis has been prepared for this project and is included in this document.</p> <p>The status quo is not an acceptable alternative. It requires too much operator exposure to sensitive materials and operations.</p>	
12. SUPPLEMENTAL DATA:	
A. Estimated Design Data:	
(1) Status:	
(a) Design Start Date	Aug 88
(b) Percent Complete As Of 01 January 90 (BDGT YR)	100
(c) Percent Complete As Of 01 October 90 (PROG YR)	100

1. COMPONENT		2. DATE	
FY 1991 MILITARY CONSTRUCTION PROJECT DATA			
ARMY-PBS		JAN 89	
3. INSTALLATION AND LOCATION			
LONGHORNS ARMY AMMUNITION PLANT, Texas			
4. PROJECT TITLE		5. PROJECT NUMBER	
Personnel Safety Enhancement		1345-	
12. SUPPLEMENTAL DATA      Continued			
A. Estimated Design Data: (Continued)			
(1) Status: (Continued)			
(d) Design Complete Date ..... Nov 89			
(2) Basis:			
(a) Standard or Definitive Design - Yes      No			
(b) Where Design Was Most Recently Used .....			
(3) Total Cost (c) = (a)+(b) or (d)+(e):      (\$000)			
(a) Production of Plans and Specifications .....			
(b) All Other Design Costs .....			
(c) Total Cost .....			
(d) Contract .....			
(e) In-house .....			
(4) Construction Start ..... Apr 91			
Month & year			
B. Equipment associated with this project which will be provided from other appropriations:			
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)
None			

1. COMPONENT		FY 1991 MILITARY CONSTRUCTION PROJECT DATA		2. DATE	
ARMY-938				JAN 89	
3. INSTALLATION AND LOCATION			4. PROJECT TITLE		
Longhorn Army Ammunition Plant, Texas			Construct MUSALL Jordanian		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST	9. FUNDING	
190		11199		10. ADEQUATE 11. APPROX 12. 1000 13. 1000	
14. COST ESTIMATES					
ITEM	U/M	QUANTITY	UNIT COST	TOTAL COST	
<b>Primary Facility</b>					
Steam Plant	LS	-	-	46,550	
Electrical Distribution Systems	LS	-	-	12,797	
Water Distribution and Sewage	LS	-	-	2,378	
Site Preparation	LS	-	-	12,500	
				3,509	
<b>Subtotal</b>				46,550	
<b>Contingency (10.00%)</b>				4,655	
<b>Total Contract Cost</b>				51,205	
<b>Supervision, Inspection &amp; Overhead (5.50%)</b>				2,816	
<b>Total Request</b>				54,021	
<b>Total Request (Rounded)</b>				54,000	
<b>Installed Equipment - Other Appropriations</b>					
15. Description of Proposed Construction      This project is the first year of a five year effort to provide a turnkey (design/construct/prove-out) MUSALL facility. This first year's effort will include: <ul style="list-style-type: none"> <li>(a) Site Preparation</li> <li>(b) Electrical Distribution System</li> <li>(c) Water and Sewage Distribution System</li> <li>(d) Centralized Steam Plant</li> </ul>					
16. REQUIREMENT: 1,445,000 LS ADEQUATE: 317,000 LS SUBSTANDARD: 300,000 LS PROJECT: Capacity to produce 500,000 lbs/mo of HMX and its associated final products. REQUIREMENT: To provide timely facilities to meet future HMX requirements. CURRENT SITUATION: Current production facility cannot meet future HMX requirements. IMPACT IF NOT PROVIDED: If this project is not funded, the Army would be unable to meet its future HMX requirements. In addition, this country would have to continue relying on Holston AAP as its only source of HMX, thus bearing the risk of production loss through a single act of sabotage or major industrial accident.					

1. COMPONENT	2. DATE
FY 1991 MILITARY CONSTRUCTION PROJECT DATA	
APRY-223	JAN 89
3. INSTALLATION AND LOCATION	
Longhorn Army Ammunition Plant, Texas	
4. PROJECT TITLE	5. PROJECT NUMBER
Construct MUSAII Complex	11139

6. REQUIREMENT Continued  
 IMPACT IF NOT PROVIDED: Continued:

10. SUPPLEMENTAL DATA.

A. Estimated Design Data:

- (1) Status:
- |  |        |
|--|--------|
| (a) Design Start Date                              | Jan 89 |
| (b) Percent Complete As Of 01 January 90 (BDGT YR) | 35     |
| (c) Percent Complete As Of 01 October 90 (PROG YR) | 35     |
| (d) Design Complete Date                           | Oct 91 |
- (2) Basis:
- (a) Standard or Definitive Design - Yes ☐ No ☐
- (b) Where Design Was Most Recently Used \_\_\_\_\_
- (3) Total Cost (c) = (a)-(b) or (d)-(e): (\$000)
- |  |       |
|--|-------|
| (a) Production of Plans and Specifications | _____ |
| (b) All Other Design Costs                 | _____ |
| (c) Total Cost                             | _____ |
| (d) Contract                               | _____ |
| (e) In-house                               | _____ |
- (4) Construction Start \_\_\_\_\_ Apr 92  
 Month & Year

3. Equipment associated with this project which will be provided from other appropriations:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)
None			



FY 1991 MILITARY CONSTRUCTION PROJECT DATA																											
1. COMPONENT ARMY-PBS	2. DATE JAN 89																										
3. INSTALLATION AND LOCATION Raidford Army Ammunition Plant, Virginia																											
4. PROJECT TITLE Replace Five Barricades	5. PROJECT NUMBER 13596																										
<p>11. REQUIREMENT (Continued)  <u>REQUIREMENT</u> (Continued)  FY-88. Repairs to many of these barricades have become excessive and cannot keep up with the rate of deterioration, and the structural integrity cannot be assured.</p> <p><u>CURRENT SITUATION:</u> 240 barricades are required at this plant to meet current production schedules and for mobilization. A portion of these can be maintained for the next 20 years. The remaining ones must be replaced because of decaying of the major structural components. A replacement program has been started to renew the barricades at these buildings, a few each year, beginning with the ones that are in greatest need of replacement.</p> <p><u>IMPACT IF NOT PROVIDED:</u> Without adequate barricades, RAAP could not continue to operate within existing intraline quantity distances</p>																											
<p>12. SUPPLEMENTAL DATA</p> <p>A. Estimated Design Data:</p> <p>(1) Status:</p> <table style="width: 100%;"> <tr> <td>(a) Design Start Date</td> <td style="text-align: right;">Aug 89</td> </tr> <tr> <td>(b) Percent Complete As Of 01 January 90 (BDGT YR)</td> <td style="text-align: right;">100</td> </tr> <tr> <td>(c) Percent Complete As Of 01 October 90 (PROG YR)</td> <td style="text-align: right;">100</td> </tr> <tr> <td>(d) Design Complete Date</td> <td style="text-align: right;">Dec 89</td> </tr> </table> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design - Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>(b) Where Design Was Most Recently Used _____</p> <p>(3) Total Cost (c) = (a)-(b) or (d)-(e) (\$000)</p> <table style="width: 100%;"> <tr> <td>(a) Production of Plans and Specifications</td> <td style="text-align: right;">_____</td> </tr> <tr> <td>(b) All Other Design Costs</td> <td style="text-align: right;">_____</td> </tr> <tr> <td>(c) Total Cost</td> <td style="text-align: right;">_____</td> </tr> <tr> <td>(d) Contract</td> <td style="text-align: right;">_____</td> </tr> <tr> <td>(e) In-house</td> <td style="text-align: right;">_____</td> </tr> </table> <p>(4) Construction Start _____ Apr 91 month &amp; year</p> <p>B. Equipment associated with this project which will be provided from other appropriations:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Equipment Nomenclature</th> <th style="text-align: left;">Procuring Appropriation</th> <th style="text-align: left;">Fiscal Year Appropriated Or Requested</th> <th style="text-align: left;">Cost (\$000)</th> </tr> </thead> <tbody> <tr> <td colspan="4" style="text-align: center;">None</td> </tr> </tbody> </table>		(a) Design Start Date	Aug 89	(b) Percent Complete As Of 01 January 90 (BDGT YR)	100	(c) Percent Complete As Of 01 October 90 (PROG YR)	100	(d) Design Complete Date	Dec 89	(a) Production of Plans and Specifications	_____	(b) All Other Design Costs	_____	(c) Total Cost	_____	(d) Contract	_____	(e) In-house	_____	Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)	None			
(a) Design Start Date	Aug 89																										
(b) Percent Complete As Of 01 January 90 (BDGT YR)	100																										
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(c) Total Cost	_____																										
(d) Contract	_____																										
(e) In-house	_____																										
Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)																								
None																											

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SECTION 2 - FY 1991

1. COMPONENT	2. DATE
ARMY-PBS	JAN 89
FY 1991 MILITARY CONSTRUCTION PROJECT DATA	
3. INSTALLATION AND LOCATION	
Barbers Army Ammunition Plant, Alabama	
4. PROJECT TITLE	5. PROJECT NUMBER
Fuel Storage and Dispensing Station	19601
11. REQUIREMENT (Continued)	
PROJECT (Continued)	
1. 13,340 gallons of diesel fuel storage capacity. 2. 33,340 gallons of gasoline storage capacity. 3. 19,500 square feet of paved surface for dispensing facilities. 4. 200 square feet of enclosed storage capacity.	
<u>REQUIREMENT:</u> The new facility is needed to provide a reliable, nonpolluting and safe method for storing and dispensing fuels for plant vehicles.	
<u>CURRENT SITUATION:</u> Diesel fuel is now stored in two 6,770 gallon tanks. Gasoline is stored in three tanks (total capacity - 33,340 gallons). These tanks do not provide adequate capacity and are in need of replacement. The main gasoline dispensing facility is currently located in the parking lot at Building 241. Motor oil, antifreeze, and other needed accessories are stored in Building 241.	
<u>IMPACT IF NOT PROVIDED:</u> Continued use of present storage facilities poses a safety and contamination hazard as well as unreliable service. If main dispensing station is not moved, the safety problems from proximity to the Internal Ballistics Laboratory will continue to exist.	
<u>ADDITIONAL:</u> Format B has been prepared and is included in the P-15.	
12. SUPPLEMENTAL DATA:	
A. Estimated Design Data:	
(1) Status:	
(a) Design Start Date	Feb 89
(b) Percent Complete As Of 01 January 90 (BDGT YR)	100
(c) Percent Complete As Of 01 October 90 (PROG YR)	100
(d) Design Complete Date	Dec 89
(2) Basis:	
(a) Standard or Definitive Design - Yes <input type="checkbox"/> No <input type="checkbox"/>	
(b) Where Design Was Most Recently Used	
(3) Total Cost (c) = (a)+(b) or (d)+(e): (\$000)	
(a) Production of Plans and Specifications	
(b) All Other Design Costs	
(c) Total Cost	
(d) Contract	
(e) In-house	
(4) Construction Start	Apr 91
	month & year

1. COMPONENT		2. DATE	
ARMY-888		FAY 88	
FY 1991 MILITARY CONSTRUCTION PROJECT DATA			
3. INSTALLATION AND LOCATION			
4. PROJECT TITLE			
5. PROJECT NUMBER			
6. PROJECT DESCRIPTION			
7. PROJECT COST			
8. PROJECT STATUS			
9. PROJECT COMMENTS			
10. SUPPLEMENTAL DATA (Continued)			
3. Equipment associated with this project which will be provided from other appropriations:			
Equipment <u>Nomenclature</u>	Procuring <u>Appropriation</u>	Fiscal Year <u>Appropriated</u> <u>Or Requested</u>	Cost <u>(\$000)</u>
	None		